DOCUMENT RESUME

ED 114 462	CE 005 103
TITLE	Occupations: Military--Civilian Occupational Source Book.
INSTITUTION	Armed Forces Vocational Testing Group, Universal City, Tex.
REPORT NO	DOD-1304.12Y
PUB DATE	Jul 75
NOTE	318p.
EDRS PRICE	MF-$0.76 HC-$15.86 Plus Postage
DESCRIPTORS	Cluster Grouping; *Comparative Analysis; *Employment Qualifications; Enlisted Men; *Information Sources; Jobs; *Military Personnel; Military Service; Occupational Clusters; *Occupational Information
IDENTIFIERS	Air Force; Army; Coast Guard; Marine Corps; Navy

ABSTRACT

Information on enlisted military occupations is offered in the source book to arrive at a comprehensive statement of job tasks in the military service and their similarities to jobs in civilian life. Basic information about five areas of the U.S. military services (Army, Navy, Air Force, Marine Corps, and Coast Guard) focuses on their military enlistment, training, promotion, assignment, advanced education programs, and military reserve components. A section is devoted to the structure and use of the source book, examining the classification (specialty/rating) system of the military service based on the occupational cluster concept and the Dictionary of Occupational Titles (DOT). A significant section (256 pages) of the source book focuses on job statements for military service occupations which are equated to corresponding civilian occupations according to 10 categories: (1) professional, technical, and managerial occupations; (2) clerical and sales occupations; (3) service occupations; (4) farming, fishery, forestry, and related occupations; (5) processing occupations; (6) machine trades occupations; (7) bench work occupations; (8) structural work occupations: (9) miscellaneous occupations: and (10) military unique occupations (no civilian counterpart). References and a cross-indexed list of civilian titles with their corresponding DOT code are included. (EC)

****
* Documents acquired by ERIC include many informal unpublished *
* materials not available from other sources. ERIC makes every effort *
* to obtain the best copy available. Nevertheless, items of marginal *
* reproducibility are often encountered and this affects the quality *
* of the microfiche and hardcopy reproductions ERIC makes available *
* via the ERIC Document Reproduction Service (EDRS). EDRS is not *
* responsible for the quality of the original document. Reproductions *
* supplied by EDRS are the best that can be made from the original. *
****

ED114462

U S DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

FIRST EDITION JULY 1975—DOD 1304.12Y

PREFACE

Department of Labor sources indicate that by the mid-1980's over 80 percent of today's jobs will require technical specialization, and in order to compete, entry-level workers will need technical training.

In response to this increasing demand for technical training, educational orientations have shifted towards career education, and concurrently, there has been a burgeoning growth of vocational training centers at both the secondary and post-secondary school levels.

In addition to state-subsidized vocational training schools, many industries are sponsoring technical training for persons entering specific jobs.

Another source of training and a practical career alternative is employment in the military services. Military technical training and work have widespread application in the civilian community.

The Department of Defense Military/Civilian Occupational Source Book emphasizes this commonality between military and civilian occupations. Hopefully, this emphasis will provide a stimulus to qualified young men and women to investigate the military services as a source of immediate employment and for basic and advanced technical training which they can utilize in their military or civilian career planning.

William K. Brehm

William K. Brehm
Assistant Secretary of Defense
(Manpower and Reserve Affairs)

FOREWORD

The Department of Defense Military/Civilian Occupational Source Book was prepared by the Armed Forces Vocational Testing Group (AFVTG), under the auspices of the Office of the Assistant Secretary of Defense for Manpower and Reserve Affairs. The Vocational Testing Group is a joint service agency which manages the Department of Defense High School Testing Program and directs administration and research on the Armed Services Vocational Aptitude Battery (ASVAB).

The ASVAB measures a student's vocational aptitude, and identifies those areas in which he or she is most likely to succeed. The identification of the student's aptitude, coupled with the identification of specific jobs in that aptitude area, or cluster, is of considerable benefit to the student and the counselor in formulating the student's post-high school plans. This edition of the book does not include aptitude score ranges for specific jobs; however, inclusion is planned for future editions.

The following government agencies provided technical, logistic and administrative support in the publication of the source book:

Department of Labor
Texas Employment Commission
Department of Health, Education and Welfare
Department of Defense
  (Joint Education Liaison Directors of Recruiting (JELDOR) Committee)
Department of Transportation

Specific acknowledgement of individuals within these agencies is gratefully given for their significant contributions to the overall effort:

Department of Labor:	Mr. Leon Lewis
Texas Employment Commission:	Mr. Larry R. Hunt
	Mr. John C. Wagner
	Mr. Kenneth J. Keil
	Mr. James A. Lorance
Department of Health, Education and Welfare:	Mr. Sherril D. McMillen
Department of Defense/Transportation Joint Working Group:	Dr. Harry D. Wilfong, PhD—Technical Advisor
	LCDR Frank L. Kerr, USN—Project Director
	Capt. Robert Puchalski, USA—Project Officer
	PNCS Douglas J. Sabol, USN—Ass't Project Officer
U. S. ARMY REPRESENTATIVES:	Capt. Robert H. Lofts
	Sgt. Maj. Raymond W. Hensley
	M. Sgt. Arnold H. Dobson
	M. Sgt. William S. Saunders
	Sfc. James J. Lefebre

U. S. NAVY REPRESENTATIVES:	LCDR Donald L. Terry PNCM Tracy C. Hicks PNC Curtis L. Shelton PNC Randall A. Smith PNC Donald L. Salyards
U. S. AIR FORCE REPRESENTATIVES:	Capt. John M. Garrity CM. Sgt. Cecil R. Tatum SM. Sgt. George R. DeJarnette, Jr. SM. Sgt. Robert O. Sherwood M. Sgt. Edwin G. Cummings
U. S. MARINE CORPS REPRESENTATIVES:	Capt. Ronald D. Kincade M. Sgt. Frank L. Pfeiffer GySgt. Louis L. Mandl GySgt. Ronald Workman GySgt. Theodore E. Ludwig
U. S. COAST GUARD REPRESENTATIVES:	CWO-4 George H. Yarrington RDC Lewis E. Beck MKC William C. Eason AEC Jacob C. Valadez YNC James W. Dyer

Department of Defense/Transportation Joint Review Committee:

U. S. ARMY:	LTC Joseph A. Barry Mr. Wayne W. Bayles
U. S. NAVY:	CDR John Brame Mr. Hugh Martin
U. S. AIR FORCE:	Maj. Wayne Sellman Capt. Jack Downey
U. S. MARINE CORPS:	LtCol Vito Solazzo Mr. David Sutter
U. S. COAST GUARD:	LTjg William Horan

Ralph S. Hoggatt,

RALPH S. HOGGATT, Colonel, USAF
Commander
Armed Forces Vocational Testing Group

CONTENTS

Page

Section I Introduction 1-1
Section II General Military Information 2-1
  Basic Facts About Military Life 2-1
  Military Enlistment, Training, Promotion, Assignment and Advanced Educational Programs 2-9
    US Army 2-9
    US Navy 2-13
    US Air Force 2-18
    US Marine Corps 2-22
    US Coast Guard 2-25
  Military Reserve Components 2-29
Section III Structure and Use of the Source Book 3-1
  General 3-1
  Definitions:
    Occupational Career Cluster Concept 3-1
    Dictionary of Occupational Titles Classification 3-1
    Military Classification (Specialty/Rating) Systems 3-1
      US Army 3-1
      US Navy 3-2
      US Air Force 3-2
      US Marine Corps 3-3
      US Coast Guard 3-4
  Steps in Source Book Development 3-4
Section IV Job Statements 4-1
  General 4-1
  Job Statement Sheets (on opposite page)
Index of Civilian Titles 5-1
References 5-13

TAB

0/1 Professional, Technical and Managerial Occupations, page 4-1

2 Clerical and Sales Occupations, page 4-65

3 Service Occupations, page 4-95

4/5 Farming, Fishery, Forestry and Related Occupations, /processing occupations page 4-110

6 Machine Trades Occupations, page 4-113

7 Bench Work Occupations, page 4-140

8 Structural Work Occupations, page 4-158

9 Miscellaneous Occupations, page 4-196

10 Service Unique Occupations, page 4-222

INTRODUCTION

The Department of Defense Military/Civilian Occupational Source Book has been created to serve as a single reference document for enlisted military occupational information, and wherever possible equates these occupations to their civilian counterparts as identified in the Department of Labor Dictionary of Occupational Titles. These occupations are also identified under the fifteen career clusters developed by the Department of Health, Education and Welfare.

The Source Book is a pioneer effort by the Department of Defense in formulating composite job statements for the five military services in those occupational areas where commonality of job tasks exists. Those occupations which are unique to one or more of the military services and/or for which there is no identified counterpart in the civilian job market are also described.

The Source Book is not intended to be all inclusive and does not replace individual military service occupational information publications, but it does provide a starting point for investigating the opportunities for work experience and training available in all military services. For specific information about a particular service job, the local recruiting office for that service should be contacted.

SECTION I

Publication and distribution of the first edition of the Source Book have been accomplished on a limited basis to permit initial evaluation in the field.

Future editions will be revised as appropriate to include:

a. Armed Services Vocational Aptitude Battery score ranges applicable for a specific job in both the military and civilian job market.

b. Identification with the Fourth Edition of the Department of Labor Dictionary of Occupational Titles, to be published in 1976.

c. Additional information on specific formal training available in the military for each job classification.

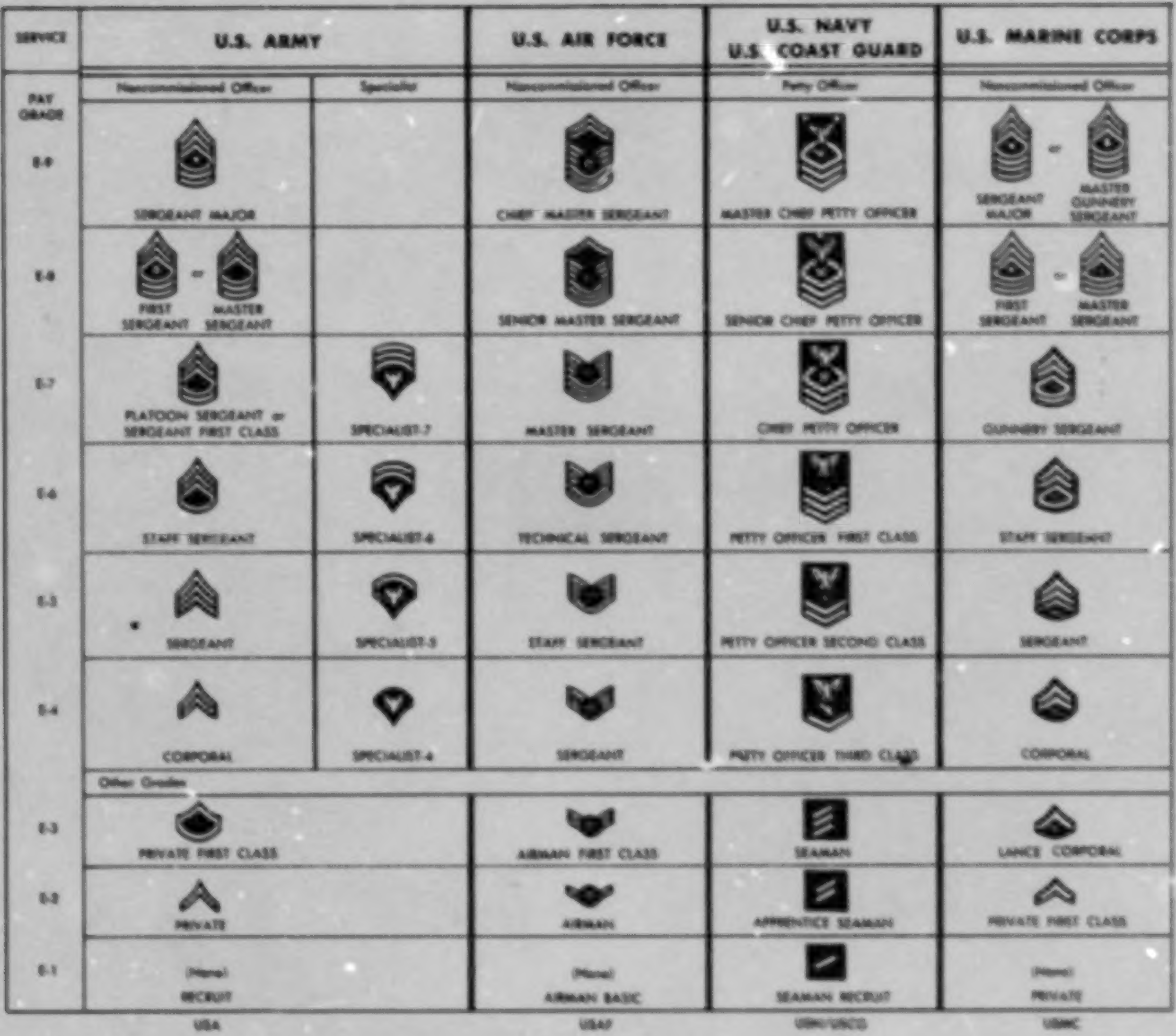
d. Other information desired to increase the value of this publication to the counselor and student.

Comments on the Source Book are invited and should be addressed to: Armed Forces Vocational Testing Group RDX, Universal City, Texas 78148. Additional copies may also be obtained by contacting the above address.

GENERAL MILITARY INFORMATION

SECTION II

Much of the policy information presented in this section is under continuous review and as such is subject to frequent revision. The information provided is current as of March 1, 1975 and will be periodically updated with future editions of the Source Book. In the event that specific information concerning a particular benefit, policy or enlistment option is required, it is recommended that the nearest Veterans Administration representative or military service recruiter be contacted.



SERVICE	U.S. ARMY		U.S. AIR FORCE	U.S. NAVY U.S. COAST GUARD	U.S. MARINE CORPS
PAY GRADE	Noncommissioned Officer	Specialist	Noncommissioned Officer	Petty Officer	Noncommissioned Officer
E-9	SERGEANT MAJOR		CHIEF MASTER SERGEANT	MASTER CHIEF PETTY OFFICER	SERGEANT MAJOR or MASTER GUNNERY SERGEANT
E-8	FIRST SERGEANT or MASTER SERGEANT		SENIOR MASTER SERGEANT	SENIOR CHIEF PETTY OFFICER	FIRST SERGEANT or MASTER SERGEANT
E-7	PLATOON SERGEANT or SERGEANT FIRST CLASS	SPECIALIST-7	MASTER SERGEANT	CHIEF PETTY OFFICER	GUNNERY SERGEANT
E-6	STAFF SERGEANT	SPECIALIST-6	TECHNICAL SERGEANT	PETTY OFFICER FIRST CLASS	STAFF SERGEANT
E-5	SERGEANT	SPECIALIST-5	STAFF SERGEANT	PETTY OFFICER SECOND CLASS	SERGEANT
E-4	CORPORAL	SPECIALIST-4	SERGEANT	PETTY OFFICER THIRD CLASS	CORPORAL
	Other Grades				
E-3	PRIVATE FIRST CLASS		AIRMAN FIRST CLASS	SEAMAN	LANCE CORPORAL
E-2	PRIVATE		AIRMAN	APPRENTICE SEAMAN	PRIVATE FIRST CLASS
E-1	(None) RECRUIT		(None) AIRMAN BASIC	SEAMAN RECRUIT	(None) PRIVATE
	USA		USAF	USN/USCG	USMC

ENLISTED PAY GRADE:

Within each of the military services there are nine enlisted (E-), four warrant officer (W-), and ten officer (O-) grades. Since this book is oriented toward the enlisted jobs, the following explanation will also be oriented toward the enlisted person, but the principle applies to the officer and warrant officer structure as well.

At the bottom of the enlisted scale is the pay grade E-1. It is at this **pay grade** most enlisted personnel enter the service. In the various services the **rank** of E-1 would be Private, Seaman Recruit or Airman Basic. At the top of the enlisted scale is the pay grade E-9. The rank of the pay grade E-9 would be Army—Command Sergeant Major or Sergeant Major; Navy and Coast Guard—Master Chief Petty Officer; Air Force—Chief Master Sergeant; Marine Corps—Sergeant Major or Master Gunnery Sergeant. The following insignia chart provides the information for all enlisted pay grades.

MONTHLY BASIC PAY EFFECTIVE 1 OCTOBER 1974

YEARS OF SERVICE

	UNDER 2	OVER 2	OVER 3	OVER 4	OVER 6	OVER 8	OVER 10
E-9							$ 969.90
E-8						$ 813.90	836.70
E-7	$ 568.20	$ 613.20	$ 636.00	$ 658.20	$ 681.00	702.30	724.50
E-6	490.80	535.20	557.40	580.50	602.70	624.90	647.40
E-5	430.80	469.20	491.70	513.00	546.60	568.80	591.60
E-4	414.30	437.40	462.90	499.20	518.70	518.70	518.70
E-3	398.40	420.30	437.10	454.20	454.20	454.20	454.20
E-2	383.40	383.40	383.40	383.40	383.40	383.40	383.40
E-1	344.10	344.10	344.10	344.10	344.10	344.10	344.10

	OVER 12	OVER 14	OVER 16	OVER 18	OVER 20	OVER 22	OVER 26
E-9	$ 992.10	$1014.60	$1038.00	$1060.80	$1081.80	$1138.80	$1249.20
E-8	858.90	881.40	904.20	925.50	948.30	1003.80	1116.00
E-7	747.30	781.20	803.10	825.60	836.70	892.80	1003.80
E-6	681.00	702.30	724.50	735.90	735.90	735.90	735.90
E-5	613.20	624.90	624.90	624.90	624.90	624.90	624.90
E-4	518.70	518.70	518.70	518.70	518.70	518.70	518.70
E-3	454.20	454.20	454.20	454.20	454.20	454.20	454.20
E-2	383.40	383.40	383.40	383.40	383.40	383.40	383.40
E-1	344.10	344.10	344.10	344.10	344.10	344.10	344.10

PAY AND ALLOWANCES:

1. Basic Pay

This is the principal element of military compensation. All members receive basic pay. The amount to which a member is entitled is determined by grade or rank and total years of service (see chart above for amounts).

Highest Enlisted Rank. While serving as Sergeant Major of the Army, Master Petty Officer of the Navy, Chief Master Sergeant of the Air Force, or Sergeant Major of the Marine Corps, basic pay for this grade is $1,518.60 regardless of cumulative years of service.

MONTHLY
BASIC ALLOWANCE FOR QUARTERS RATES
EFFECTIVE 1 OCTOBER 1974

PAY GRADE	WITHOUT DEPENDENTS	WITH DEPENDENTS
E-9	$138.00	$194.40
E-8	128.70	181.80
E-7	110.40	170.40
E-6	101.10	158.40
E-5	97.80	146.40
E-4	86.10	128.10
E-3	76.20	110.70
E-2	67.50	110.70
E-1	63.30	110.70

2. Basic Allowance for Quarters

Military personnel on active duty are authorized a money allowance whenever Government quarters are not provided. The amount varies in accordance with the member's pay grade and whether he or she has dependents (see chart above).

3. Basic Allowance for Subsistence

Enlisted members who do not eat in a Government dining hall are normally entitled to one of three types of subsistence allowances, depending on the circumstances (see chart below).

Basic Allowance for Subsistence Rates

Enlisted:

Separate and Leave Rations	$2.41/Day
Rations in Kind not Available	2.71/Day
Emergency Rations	3.61/Day

4. Other Types of Compensation

a. **Incentive Pay for Hazardous Duty**—Includes duties such as flight and submarine ($50 to $105 per month depending on pay grade and longevity), parachute jumping, frequent aerial flight (not as crew), glider, leprosarium, high or low pressure chamber, test subject in stress, acceleration or deceleration experiments, flight deck, and demolition of explosives ($55 per month).

b. **Special Pay: Proficiency Pay**

(1) **Shortage Specialty (Proficiency Pay).** Used to complement the Selective Reenlistment Bonus to attract additional career manning in critical military specialties. Paid to all career members serving in designated military specialties in the amounts of $50, $75, $100 or $150 per month.

(2) **Special Duty Assignment (Proficiency Pay).** Used to induce personnel to volunteer for certain special duty assignments outside their normal career field. Paid to all personnel serving in designated special duty assignments in the amounts of $30, $50 or $75 per month. By special waiver, armed forces recruiters are authorized $50, $100 or $150 per month depending on the amount of time served as an actual recruiter.

c. **Special Pay for Sea Duty or Duty at Certain Places**—Authorized while on sea duty or while stationed at certain foreign places where extremes in climate or inadequate facilities and services are experienced ($8.00-$22.50 per month depending on pay grade).

d. **Special Pay for Diving Duty**—($65 to $100 per month depending upon classification of duty performed).

e. **Special Pay for Duty Subject to Hostile Fire**—Authorized to members permanently assigned in designated hostile fire areas and under certain conditions to members on temporary duty in these areas. ($65 per month).

f. **Special Pay: Enlistment Bonus**—An attraction incentive authorized to encourage enlistments in designated skills of the services by providing up to a $3,000 bonus for a 4-year enlistment.

g. **Special Pay: Selective Reenlistment Bonus**—A retention incentive paid in critical military specialties for any reenlistment point between 21 months and 10 years of service. Paid in multiples (one through six) of monthly basic pay multiplied by years (not to exceed six) of additional obligated service. Maximum of $12,000 ($15,000 for Navy nuclear power personnel) per reenlistment.

h. **Special Continuation Pay for Nuclear Qualified Submarine Enlisted Personnel**—Nuclear trained and qualified Naval members, with less than 10 but at least 6 years active duty, who execute, when eligible, a reenlistment agreement for not less than 2 years may be paid a bonus not to exceed six months of the basic pay to which entitled at time of discharge, multiplied by the number of years of additional obligated service not to exceed 6 years or $15,000, whichever is the lesser amount.

5. Retirement Pay

Military personnel who have completed 20 or more years of active military service are eligible to apply for retirement. On approval of such applications, they are entitled to a monthly retired pay computed by multiplying their terminal basic pay by 2 1/2 percent times their years of service.

MILITARY ASSIGNMENTS:

All military assignments are based primarily upon the need of the service for the particular skills possessed by its individual members. In general, all members of the armed forces on active duty are governed by the same assignment policies. In the case of overseas assignments, established policy prescribes that they, including those to areas of potential combat, must be shared as equitably as practicable by all military personnel, consistent with the rank and skill requirements of overseas units. More specific information on assignments in each service is provided later.

VACATION (LEAVE TIME):

Military service includes vacation time—called "leave"—to provide time away from the work environment to rest and relax. Leave is earned at the rate of 2-1/2 days per month, or 30 days per year, for all pay grades. Leave is supposed to be taken periodically during the year, including one leave period of at least 14 days in length, except when military operations prevent it. In these circumstances, there are provisions for saving this unused leave (up to 60 days) for later use when the situation permits.

IN-SERVICE EDUCATION BENEFITS:

1. **Tuition Assistance**—Servicemen and women participating in voluntary education programs may receive financial assistance from their military service to cover up to 75% of tuition costs. In-service G.I. Bill benefits, for which a member becomes eligible after 6 months on active duty, are also available to pay for tuition costs. More specific information on educational programs available in each service is provided later in this section.

2. **Predischarge Education Program (PREP)**—Under a recent feature of the G.I. Bill, assistance may be accorded members who need courses to complete high school or to overcome an educational deficiency which would impede progress toward further education and training. Eligibility begins after 6 months active duty and no charge is made to regular G.I. Bill eligibility due to participation in PREP.

DISABILITY BENEFITS:

Military personnel who become permanently physically unfit for performance of their military duties by reason of a service connected disability rated at 30 percent or more are entitled to disability retired pay computed by multiplying their terminal basic pay by (a) their percentage of disability; or (b) 2-1/2 percent times their years of service, whichever is greater. A member who is otherwise entitled to disability retired pay except that his or her disability may not be permanent, will be placed on the temporary disability retired list until the permanence of his or her disability is established. A member on the temporary disability retired list must be reexamined at least once every 18 months and must be permanently retired for disability, discharged, or returned to duty, within 5 years after initial placement on the temporary disability retired list.

Military personnel who incur service connected disability are also entitled to "disability compensation" from the Veterans Administration as an alternative to disability retired pay. "Disability Compensation" is a flat amount related to percent of disability and does not vary based on grade, length of service or similar factors.

AUXILIARY BENEFITS:

The armed forces provide a well-balanced recreational program for all personnel ranging from athletics to motion pictures and from hobby and craft shops to service clubs.

Included in the athletic program at most military installations are such familiar sports as basketball, baseball, football, swimming and track.

At least one motion-picture theater is available at all bases and similar facilities are provided for shipboard personnel. A wide variety of music and drama activities are also offered.

Service clubs provide many varied recreational activities, such as special parties, dances, contests, exhibits, shows and other forms of entertainment. Club facilities include snack bars, refreshment areas, game rooms, TV and music rooms and lounges.

All military installations and ships have libraries with books and audio-visual materials to support the various educational programs, informational and recreational needs. Most of the libraries are staffed by professional librarians and the number of books and other materials available are limited only by space requirements.

Medical care for dependents of active duty and retired personnel at military facilities is authorized when available. It is also authorized, under certain circumstances, at civilian hospitals for dependents of active duty personnel and for retired personnel and their dependents.

Full dental care is provided for all active duty personnel. Routine dental care is authorized for dependents at certain remote installations and overseas.

Military personnel of pay grade E-5 through E-9, and E-4 with at least two years service, are eligible for military housing. If government quarters are available the occupants give up their basic allowance for quarters.

Service personnel get assistance with their financial and personal problems from personal affairs offices, chaplains, legal assistance offices and supporting agencies (i.e. local welfare groups, American Red Cross and the aid society of each service).

All installations offer military and retired personnel and dependents exchange and commissary privileges. Most necessities can be purchased at these facilities.

VETERANS BENEFITS:

1. **Education**—Under the G.I. Bill, veterans are offered educational assistance for a period not to exceed 36 months, providing 18 or more months service have been rendered and the service obligation satisfied. A number of programs exist, ranging from full-time student status to a combination of formalized education linked to training in business, agriculture or as an apprentice. An eligible veteran may also take an approved course in flight training providing it is necessary for the pursuit of a vocation.

2. **Hospitalization**—Veterans may be given care in a Veterans' hospital for service connected disability, and those not discharged for disability can be given such care if unable to defray the cost of hospitalization elsewhere.

3. **Insurance**—Servicemen's Group Life Insurance may, upon separation from the service, be converted to an individual policy at standard premium rates, regardless of health, with any participating company in the veteran's state.

4. **Employment**—A veteran usually has certain reemployment rights when returning from military service to his former place of private or federal employment. For those not so fortunate, unemployment compensation is usually payable to a veteran to help meet basic needs while searching for employment. Further, job counseling, testing and employment placement services are administered through local Veterans Employment Representatives in local State Employment Service offices.

5. **Loans**—Veterans may be eligible for certain loans, including up to $17,500 for home loans, $4,000 for other real estate loans and up to $2,000 for non-real estate loans.

SURVIVOR BENEFITS:
Benefits for widows/widowers and children:

There are a variety of benefits provided to the surviving spouse, children, and in some cases, the dependent parents of a member of the armed forces who dies in the active military service. Some are provided by the military department with which the member served, others are provided by the Veterans Administration and the Social Security Administration. They are described in more detail below.

1. **Medical Care**—The surviving spouse and children of a military member are also entitled to medical care in military medical facilities subject to the availability of space and the ability of the medical staff to provide such care. They are also entitled to partial coverage for medical care they secure from civilian sources.

2. **Dependency and Indemnity Compensation**—Dependency and Indemnity Compensation (DIC) is payable to the surviving spouse, children, and under some conditions, to the parents of a member who dies on active duty, or after separation from active duty if death is from a service connected cause. The amount of the payment to the spouse ranges from $215 to $549 monthly, depending on the member's grade. When there

are children the amount payable to the spouse is increased by $26 monthly for each child. Whether parents qualify for payment is dependent on their income.

3. **Six Months Death Gratuity**—A death gratuity in the amount of six months pay at the rate to which a deceased member was entitled on the date of death is payable to his/her survivors. The minimum payment is $800; the maximum payment is $3,000.

4. **Servicemen's Group Life Insurance**—The Servicemen's Group Life Insurance Act provides group life insurance coverage for each member of the armed forces in the amount of $20,000 for a monthly premium of $3.40. The serviceman may elect a lesser amount of insurance at proportionately lesser cost, or decline any coverage. The service member may designate any person as the beneficiary.

5. **Survivor Benefit Plan**—Military personnel who retire for length of service or disability may elect to be covered under the Survivor Benefit Plan. Under this Plan the member may elect to receive a reduced retired pay in order to provide an annuity after his/her death for the surviving spouse or children, or, if there is no spouse or child, the member may elect to provide an annuity for certain other persons. The cost of the program is financed through contributions by the member supplemented to the extent necessary by the government. The maximum annuity is 55% of the member's retired pay. The amount of the annuity is reduced by any Dependency and Indemnity Compensation payable to the spouse. The annuity to the spouse is also offset at age 62 by an amount equal to a Social Security benefit which would be payable to the spouse based solely on the deceased member's military service. The surviving spouse of a member of the armed forces who died on active duty after having completed the years of service required to qualify for retirement is entitled to an annuity in the amount of 55% of the retired pay to which the member would have been entitled had he/she retired on the date of death. The amount of that annuity is reduced by the amount of Dependency and Indemnity Compensation payable by the Veterans Administration.

6. **Social Security**—Military personnel in common with nearly all other employed persons in the United States are covered by the Social Security benefit system. That system provides a variety of payments including retirement benefits to the member, survivors benefits to the spouse and dependent children and, under some circumstances medical and hospital benefits to the member and the member's spouse.

7. **Veterans Administration Pensions**—Former members of the armed services with "wartime" service who have disabilities which are not service-connected may, dependent on their income, be entitled to a pension from the Veterans Administration. The spouse and children of a veteran with "wartime" service whose death was not service-connected may, dependent on their income, also be entitled to a pension. The amount of such pension varies in relation to any other income the veteran or his/her survivors may have.

8. **Education Assistance to Widowers, Widows and Children**—The spouse and children of a servicemember who dies from a service-connected cause are entitled to a monthly payment from the Veterans Administration while attending an approved vocational school, business school, college, professional school or establishment providing apprentice, or other on-the-job training.

MILITARY ENLISTMENT, TRAINING, PROMOTION, ASSIGNMENT AND ADVANCED EDUCATIONAL PROGRAMS

General Enlistment Qualifications:

The general qualifications necessary for enlistment in the military services are listed below. Specific requirements for each service or enlistment options within a particular service vary.

Age

Between 17 and 35 years. Consent of parent or legal guardian required between ages 17-18.

Citizenship

U.S. citizen or an immigrant alien lawfully admitted to the U.S. for permanent residence possessing an immigration and naturalization form.

Physical

Must pass physical examination. Any man or woman in normal health should have no trouble passing.

Marriage

Either single or married.

Education

High school graduation or equivalent is desired by all services and is a requirement for enlistment under some enlisted options. All applicants will be tested to identify aptitude areas at the time of application unless valid ASVAB scores are available.

U.S. ARMY

A. Enlistment Programs:

1. The Army currently has a variety of enlistment options which guarantee one of the following for qualified applicants:

a. Training and assignment in the combat arms (Infantry, Armor, Field Artillery). A $2,500 or $1,500 enlistment bonus is paid for a four-year enlistment. Additionally, applicants may select a unit or geographical area of choice with a period of stabilization guaranteed.

b. Choice of training in a noncombat arm critical skill required by the Army and an enlistment bonus of $1,500 for a four-year enlistment.

c. Training of choice in one of over 300 specific skills, choice of unit, and a period of guaranteed stabilization.

d. Training and assignment in communications electronics, intelligence and security fields.

e. Warrant Officer Flight Training for both fixed and rotary wing Army aircraft.

f. Recognition and utilization of skills brought to the Army by applicants from civilian life. Qualified applicants are offered accelerated promotions for their civilian acquired skill through the Army's Stripes for Skills Program.

2. Higher enlistment pay grades are awarded to applicants having completed varying number of years in either junior or senior ROTC, or the National Defense Cadet Corps (NDCC) Secondary Educational Division Program.

B. Training Programs:

1. **Basic Training (Females)**—The objectives of Basic Training (BT) are to provide a meaningful transition into the Army and to establish and instill within newly enlisted female trainees the discipline, motivation, military courtesy, physical conditioning, weapons familiarization, team work, and knowledge of military subjects necessary to serve as a foundation for their Advanced Individual Training (AIT) and future professional development. Additionally, BT develops within each trainee a knowledge and appreciation of her rights and responsibilities under the international body of law concerning warfare and her moral responsibility as a soldier in the United States Army. Combined with skills developed in AIT, BT is designed to produce a soldier prepared to join her operational unit. BT is required of all non-prior service (NPS) female enlistees. It is this training which provides the basic skills required to be a soldier. The length of the course is 7 weeks and training is conducted at both Ft Jackson, SC, and Ft McClellan, AL.

2. **Basic Combat Training (Males)**—The objectives of Basic Combat Training (BCT) are to provide a meaningful transition into the Army and to develop a disciplined, highly motivated soldier who is qualified in his basic weapon, physically conditioned, drilled in the fundamentals of soldiery and prepared to undergo Advanced Individual Training (AIT). Combined with skills developed in AIT, BCT is designed to produce a soldier prepared to join his operational unit. BCT is required for all non-prior service (NPS) male enlistees and those prior service personnel separated from active duty for more than 3 years. It is this training which provides the basic skills required to be a soldier. The length of the BCT course is 7 weeks. At the present time males receive Basic Combat Training at one of seven locations depending on the enlistment option and/or point of entry into the Army.

3. **Technical and Advanced Training**—The objective of technical and advanced training is to provide a requisite level of instruction for individuals either returning to the Army's school system or those who have recently completed Initial Skill Training. This level of training is designed to upgrade or modify previously acquired skills to obtain greater proficiency leading to positions of greater responsibility. The training varies in length depending upon the technical aspects of the skill for which the individual is being trained. Training effectiveness is measured by a combination of performance oriented training and demonstrated mastery of the subject as determined by specific testing series. End of course surveys provide complementing insights to training effectiveness.

C. Promotion Opportunities:

The enlisted promotion system is designed to promote the best qualified men and women, provide an incentive for all individuals, and provide advancement progression throughout a satisfying career in the Army.

Promotions to enlisted pay grade E-2, E-3 and E-4 are made by local unit commanders with time in service (TIS) and time in grade (TIG) requirements regulating the promotion flow into these grades.

Promotions to pay grades E-5 and E-6 are made through the semi-centralized promotion system. Eligible individuals compete Army-wide in their Military Occupational Specialty (MOS).

Promotions to pay grades E-7, E-8 and E-9 are centralized at Headquarters, Department of the Army. Eligible individuals are considered by boards of experienced senior officers and non-commissioned officers on an Army-wide best qualified basis.

The following chart shows the time in grade and time in service requirements for promotion eligibility for pay grades E-2 through E-9.

Pay Grade	Time[1] In Grade	Time In Service	Time in[2] Service with Waiver
E-1	—	—	—
E-2	—	4 months	Entry Date
E-3	4 months	12 months	Entry Date
E-4	6 months	21 months	12 months
E-5	8 months	3 years	21 months
E-6	10 months	6 years	4 years
E-7	—	10 years	6 years
E-8	—	14 years	8 years
E-9	—	18 years	10 years

[1] Commanders may waiver up to 50% of time in grade requirement for E-2 through E-6. Time in grade requirement for promoting to E-7, E-8, and E-9 is announced separately for each selection board.

[2] Time in service may be waived for 10% of pay grades E-5 through E-9, 25% of grades E-3 through E-4, and 20% for grade E-2.

D. Personnel Assignment:

1. Assignment of enlisted personnel is based primarily on the needs of the Army. However, an individual desiring to enlist in the Army may select a specific unit or location, as his/her first permanent assignment (after completing necessary basic and individual training), where the skill in which he/she will be trained is required. The enlistment option will guarantee that the soldier will remain at this location for a minimum of 12 or 16 months (for most options), depending on the enlistment option selected. All soldiers enlisting without an enlistment option for a specific unit or location will be assigned in accordance with the needs of the Army.

2. If the soldier's first permanent assignment is in the continental U.S., he/she may be reassigned to an oversea area upon completion of the guaranteed stabilization, or upon completion of 12 months at the assigned location if an enlistment commitment was not made. The soldier's preference of oversea areas is taken into-consideration in this assignment. However, due to the success of the oversea recruiting effort, it is increasingly likely that the soldier could spend the remainder of his/her first term of enlistment at the same installation. If the soldier's first permanent assignment is in an oversea area, he/she will normally complete the full oversea tour or until separation (if the soldier does not reenlist or extend term of service), whichever occurs first. The length of oversea tours vary from 12 to 36 months depending on the desirability of the geographical location, the facilities available, and the marital status and total service of the soldier concerned. Upon completion of an oversea tour the soldier will be returned for an assignment in the continental U.S. Area of preference is considered in this reassignment. Subsequent assignments may alternate between the United States and oversea areas with the length of the tour in the U.S. normally being between two and three years.

3. There are provisions under which a soldier may request to be released from oversea orders or to be reassigned from one location to another due to extreme family problems. Additionally, there are provisions under which a soldier may volunteer for oversea service prior to completion of a tour in the U.S.; may

volunteer to extend oversea tour of duty; or may volunteer to serve in another oversea area instead of returning to the U.S. after completion of an oversea tour.

E. Advanced Educational Opportunities:

1. **Undergraduate Level**—The Army has undergraduate educational programs at all major Army installations, both overseas and stateside. Contracts to provide these educational opportunities are provided by approximately 600 educational institutions. The Army pays up to 75% of the tuition costs and $11,000,000 was programmed to pay for the tuition costs during FY 75.

Commanders plan educational activities in conjunction with mission training. Therefore, the educational opportunities are taken off-duty but may be during the daytime. Classes are normally scheduled to fit the training requirements and may be only eight weeks in length rather than the traditional semester. As an example, University of Maryland has five terms per year, eight weeks in length. During FY 74, 1,017 undergraduate degrees were awarded to Army personnel through the voluntary education program.

2. **Graduate Level**—Graduate programs are available at all state and at nearly all overseas military installations with 300 schools offering programs. Programs range from a Master's Degree to a Doctor of Philosophy. Generally, there is a choice of fields of studies. The Army pays tuition assistance for enlisted personnel. During FY 74, 970 master degrees and 12 doctoral degrees were awarded to Army personnel through the voluntary education program.

3. **College Level Examination Program (CLEP)**—This program permits highly motivated soldiers to complete up to 30 semester hours of freshman level college credit by examination. General examinations are given in English, Social Science, Natural Science, Humanities and Mathematics. In addition to the General Examinations, there are numerous CLEP Subject Examinations which allow the soldier to complete additional college level course work. All CLEP testing is accomplished at no cost to the soldier.

4. **ROTC Scholarships**—Each year, selected active duty enlisted personnel are allowed up to two years off duty (in a reserve status) to complete a baccalaureate degree and gain an Army Commission through any college which offers Army ROTC. The Army pays for all books, tuition and related laboratory fees plus $100 per month subsistence. In addition, the soldier may receive any supplemental benefits to which he is entitled through the Veterans Administration. A soldier who accepts such a scholarship incurs a 4-year Army active-duty obligation after graduation.

5. **Servicemen's Opportunity College (SOC)**—SOC colleges are a network of over 300 Junior, Community and 4-year institutions which allow each soldier to pursue a coordinated program of study through non-traditional modes regardless of where stationed. Basically SOC institutions have liberal entrance requirements, offer classes during non-traditional times, provide assistance to all students, give credit for educational experience obtained in the armed service, and have residency requirements that are adopted to the mobility and special needs of Army personnel. Nearly all major installations have a SOC institution providing educational opportunities on post.

6. **Project AHEAD**—Project AHEAD is a program whereby it is possible to enlist in the Army and start college simultaneously. During the soldier's enlistment, the AHEAD school acts as a repository for credits earned and coordinates the program of study. There are currently over 900 schools participating in this program.

7. **External Degree Programs**—External degree programs provide an alternative route to a college degree for those soldiers who have chosen to learn in whole or in part on their own. Credit may be granted for work experience and other non-traditional means of self-learning in most external degree programs.

8. **PREP**—PREP is an educational program for soldiers who have not completed high school or who need remedial, refresher or deficiency courses prior to entering a post-high school program. PREP classes are funded by the Veterans Administration with no loss of G.I. Bill benefits to the individual.

9. **Health Service Scholarships**—There are numerous scholarships available for medical specialty enlisted personnel to pursue a degree in a health related field. Program provisions and service obligations incurred by accepting these scholarships vary.

10. **Two Year College Equivalency Certificate**—A soldier may request a Department of the Army two-year College Equivalency Certificate if there is evidence of completion of an equivalency of 2 years of college-level work. A minimum of 12 semester hours of the required 60 semester hours must have been completed in the classroom. Additional credits however, may be granted for service school completion, CLEP Examinations, completion of Officer's Candidate School, serving in a Commissioned Officer's vacancy for one year and other non-traditional modes of education.

11. **Army Service Schools**—It is the purpose of this network of schools to continually augment the efficiency of Army personnel. Basic and advanced military schooling is available for all of the Army's career management fields. Much of this schooling has been recommended for college credit by the American Council on Education. Additional college credit may be available through colleges which offer courses in coordination with many of these military schools.

U.S. NAVY

A. Enlistment Programs:

1. **CACHE Program**—This is an opportunity to enlist and then select a later date to report. Sign up now but report for active duty up to 180 days later in most cases, but up to one year in the nuclear and advanced electronics fields.

2. **Nuclear Power Field Program**—This program is available to the high school male graduate or the individual who has education beyond the high school level in a junior college or university. After recruit training, the Nuclear Power Field candidate attends a basic class "A" School. Upon successful completion of this school, the candidate will be temporarily assigned to sea duty for a period of 4-7 months while awaiting assignment to the Nuclear Power School. Selected personnel may be assigned directly from Class "A" School to Nuclear Power School. The nuclear power training phase which comes next, consists of two courses: Basic Nuclear Power School and the Nuclear Propulsion Plant Operators Course. This then leads to duty assignment for some and Submarine School for those who volunteer and are found qualified for duty in submarines. The Nuclear Power Field candidate may be enlisted in pay grade E-3 if he meets the mental and physical criteria and agrees to serve in the Navy on active duty for six years. Automatic advancement to pay grade E-4 will be awarded upon successful completion of the preliminary phase of Class "A" School training. As a candidate for the Nuclear Power Field an individual may remain in CACHE for up to one year.

3. **Advanced Electronics Field Program**—A specialized 6-year advanced electronics program open to men and women who will be enlisted in pay grade E-3 and are automatically advanced to E-4 upon successful completion of preliminary phase of Class "A" school training in the electronics field. Ratings include Data Systems Technician, Electronics Technician, Sonar Technician, Aviation Anti-submarine Warfare Technician, Aviation Fire Control Technician, Fire Control Technician, Missile Technician, Aviation Electronics Technician, Electronic Warfare Technician, and Communications Technician (Maintenance). Applicants must be high school graduates or passed an equivalency test.

4. **School Guarantee Program**—The School Guarantee Program provides for the enlistment of high school graduates and the guaranteed assignment to a specific Class "A" school upon successful completion of recruit training. The specific school is determined by the results of aptitude tests, personal desires, and classification interviews administered prior to enlistment. Enlistments in this program are for 4, 5 or 6 years, at the option of the enlistee. The program is available for both male and female applicants.

5. **Occupational Specialty School Guarantee Program**—The Occupational Specialty School Guarantee Program provides for the enlistment of qualified personnel with guaranteed assignment to a Class "A" school within an occupational field. The occupational specialty is determined on the basis of aptitude tests and individual desires. The specific school is determined by classification interviews administered during recruit training, the applicant's desires and the overall needs of the Naval Service. There are 17 occupational fields to choose from which include over 60 ratings.

6. **Direct Procurement Enlistment Program**—This program provides for regular Navy enlistment of personnel possessing civilian acquired training/work experience.

a. Personnel who have satisfactorily completed acceptable civilian courses of vocational training either during or at high school or post-high school institutions and have no significant civilian work experience may be eligible for enlistment in pay grades E-1 through E-3 as a designated striker in a Navy rating.

b. Personnel who possess civilian acquired training and/or one or more years experience may be eligible for enlistment in a petty officer status through pay grade E-7 in critically manned Navy ratings.

c. All enlistments in this program are for four years and applicants must meet the basic enlistment eligibility requirements. In addition, the following age requirements are applicable:

Pay Grade	Minimum Age	Maximum Age
E-1, E-2, E-3	17	32
E-4	20	32
E-5	23	32
E-6	26	32
E-7	28	32

7. **Seafarer/Airman Program**—This four-year program provides opportunities for assignment directly into aviation, engineering or construction ratings for training on the job. Duty on the coast of choice or at an overseas home port can also be guaranteed. This program is extremely limited in numbers of openings.

B. Training Programs:

1. **Recruit Training**—Recruit training is the basic introductory and indoctrination training given to all enlisted personnel upon their entry into the Navy. Recruit training has as its mission to conduct a training program which will effect a smooth transition from civilian to Navy life, foster patriotic behavior; affirm the dignity of the individual; encourage high standards of personal responsibility, conduct, manners and morals; create a desire for self-improvement and advancement; provide the Recruit with knowledge and skills which are basic to all Navy personnel; develop pride in unit and in the Navy and a desire to observe appropriate naval customs, ceremonies, and traditions; and provide the Department of the Navy with personnel possessing an effective level of physical fitness.

Recruit training consists of the following phases:

Phase I—Basic Processing (1 week, 3 days)
Phase II—Basic Military Training (7 weeks, 3 days)
*Phase III—Apprenticeship training—2 to 4 weeks for Seaman (SN), Fireman (FN), and Airman (AN); 4 weeks for Constructionman (CN)

Training is conducted at Great Lakes, IL (male), San Diego, CA (male) and Orlando, FL (male and female).

Military processing consists of those areas required to prepare the recruit for basic training, such as clothing issue, swimming qualification, formation of recruit companies, moving into the barracks, medical/dental check, etc. Once this phase is completed, the recruit commences basic military training. This phase consists of area A, administrative, and area B, basic military training. Administration includes such topics as innoculations, yearbook pictures, academic tests, paydays, etc. The basic military area covers some 257 sessions and provides the training the recruit needs to understand what the Navy is all about. In addition to sessions on safety, military conduct, security regulations, etc., a number of sessions are devoted to fleet orientation subjects and practical drills which are shipboard oriented.

For those recruits who have not chosen to attend or are not qualified for Class "A" school training, an additional period of training, called apprenticeship training, is provided. It is conducted at the Recruit Training Commands for Seaman (SN), Airman (AN), and Fireman (FN) designated trainees immediately following completion of basic military training and is 2 to 4 weeks long. For example, Fireman apprenticeship training will provide the recruit with a look at such aspects of shipboard engineering as the basic steam cycle, boilers and their operation, some basic information about electricity and generators, detailed information about damage control as it relates to the engineering area, and specific information and practice in the types of duties that a Fireman can be expected to perform aboard ship. Apprenticeship training for the Seaman and Airman is concentrated on subjects peculiar to these ratings. Those recruits scheduled for Constructionman ratings receive four weeks of apprenticeship training at Gulfport, Mississippi. The program differs from that provided the Seaman, Airman and Fireman in that it provides broad base training in all the Constructionman fields rather than the specific training provided in the other apprenticeships.

2. **Technical or Advanced Training**—Technical or advanced training provides qualified personnel with the knowledge needed to perform specific jobs. The Navy has established a job structure that makes it possible to carry out its assigned missions. Each position in the job structure has been analyzed to determine the skills necessary to insure that each job is done properly and efficiently. Therefore, the purpose of specialized skill training is to impart these required skills to the proper number of individuals in a phased manner so that each position vacancy in the organization can be filled promptly with a qualified replacement.

Initial skill training includes all formal training normally given immediately after recruit training and leads to the award of a military occupational specialty or rating at the lowest skill level. The type of training involved qualifies the enlisted member to take a position in the job structure of the Navy and to progress, through job experience to the journeyman (pay grades E-5/E-6) level.

Most recruits have little civilian job experience and therefore, with the exception of a small number of people who enter the Navy with a skill that can be used with little or no additional training, must be trained in a skill before they can become productive. Some skills can be acquired through experience or on-the-job training. Most, however, are most effectively or efficiently learned through the formal courses of initial skill (Class "A") training.

Class "A" school assignment will in most cases be determined either at the recruiting site when a person enlists or upon his final classification at the Recruit Training Commands. School assignment determines what rating or work a person will perform while in the service. Basic job entry level (Class "A" school) training is provided at approximately 82 schools. All ratings have an "A" school except Boatswain's Mate (BM), Draftsman (DM), Lithographer (LI), Navy Counselor (NC), and Master-at-Arms (MA). Courses vary in length from four weeks for the Quartermaster (QM) school up to 46 weeks for the Electronic Warfare (EW) school.

---

*Only for those not receiving Class "A" school training.

Technical or advanced training (Class "C" schools) provides advanced knowledge, skills, and techniques required to qualify individuals for a particular job and skill level which is usually identified by a Navy Enlisted Classification Code (NEC). Course lengths vary depending on the complexity of the subject matter to be taught.

C. Promotion Opportunities:

The objective of the Navy enlisted advancement system is to furnish the qualified Petty Officers that the Navy requires to serve on its ships and stations. Such advancements in turn provide the opportunity for orderly advancements of qualified enlisted personnel to higher levels of responsibility throughout their naval careers.

The advancement system allows specialization at lower Petty Officer levels to adjust to an expanding technology, reduce training time, and improve utilization of first enlistment personnel.

The enlisted rating structure consists of paths of advancement from the recruit general apprenticeships through master chief petty officer.

There are no numerical limitations on advancements through pay grade E-3; however, a minimum time in pay grade and the commanding officer's recommendation is required. Time in pay grade for advancement through pay grade E-3 is as follows:

E-1 to E-2 ——— 4 months
E-2 to E-3 ——— 8 months

Most advancements to pay grades E-4 through E-9 are accomplished through a Navy wide system of competition in all pay grades. Advancements are based on demonstrated proficiency in assigned duties, on the evaluation and recommendation of the commanding officer, and on Navy wide written examinations. All eligible personnel compete for advancement to fill vacancies in the total Navy allowance. There are time in service (TIS) and time in pay grade (TIPG) requirements as follows:

	TIS	TIPG	TITLE
E-3 to E-4	2 years	6 months	Petty Officer Third Class
E-4 to E-5	3 years	12 months	Petty Officer Second Class
E-5 to E-6	6 years	2 years	Petty Officer First Class
E-6 to E-7	8 years	3 years	Chief Petty Officer
E-7 to E-8	11 years	3 years	Senior Chief Petty Officer
E-8 to E-9	13 years	2 years	Master Chief Petty Officer

D. Personnel Assignment:

1. The Navy classification system and the supporting occupational structure provides the means to identify the skills and capabilities of personnel and the Navy's requirements for these skills and capabilities. This system facilitates personnel planning, procurement, selection for training, development of training requirements, promotion, distribution, assignment and the orderly call to active duty of inactive duty personnel in times of national emergency or mobilization.

The system and occupational structure are revised on a continuing basis to utilize individual versatility and specialization, and to provide needed occupational flexibility in naval organization, to recognize individual differences and enhance career opportunities; and to keep abreast of technological developments and the resultant operational requirements of fleet and shore activities.

2. **Personal Wishes**—Initial assignment of recruits from the training centers takes into consideration enlistment guarantees, personal desires, qualifications and school space available. Recruits not receiving school assignment for formal rating training are assigned to ships and other activities where they will train for rating through a process named on-the-job training (or in-service training). Subsequent to a period of such training, some personnel request and receive school assignment, thus achieving rating entry through a combination of the two methods.

Minimum admission requirements are established for Navy programs, projects, and schools as guidance in determining eligibility of personnel requesting participation or enrollment. However, with few exceptions, waivers of requirements will be considered on an individual basis for personnel not meeting the published requirements but considered to have exceptional potential for success in a given program.

3. **Length of Duty Assignments**—Rotation among sea, shore and overseas activities is directly influenced by billets (jobs available), personnel available to fill them, funds, and qualifications of the individual. Using projected requirements, manpower projections, and historical data, sea/shore tour lengths have been developed for all ratings. Additionally, tour lengths have been developed for all overseas areas where Navy personnel are stationed and generally reflect the desirability of duty in that area. These tour lengths determine when an individual may expect reassignment. Reassignments may sometimes occur at other than the planned date due to participation in other programs or in emergency situations. The type duty to which an individual will be reassigned is dependent upon completion of the sea tour or shore tour specified for the rating. The classic rotation (reassignment) pattern throughout a career is a repetition of assignments at sea and ashore. Due to many variables, this pattern may be modified in individual cases by assignment to duty at overseas locations (sea or shore) or, for some first-term personnel, may begin with an initial assignment ashore. Personnel serving on an active duty obligation of 4 years or less will normally remain ashore or at sea in the same activity, for their entire initial enlistment. Urgent service requirements sometimes dictate variance from the classic rotation pattern.

Recognizing that members frequently desire to serve in duty types and locations other than those in which they are currently assigned, the Navy has provided a means by which individuals may express such desires. Duty preferences may be submitted to a Detailer (person responsible for making assignments) who will issue reassignment orders if possible.

To provide an opportunity for members to request participation in programs of a one-time or immediate nature, another method, the special request, is also utilized.

Concisely stated, this process is one in which the Detailer matches available personnel assets with existing Navy-wide requirements in such a manner as to best satisfy individual duty preferences.

E. Advanced Educational Programs:

1. **Navy Campus For Achievement (NCFA)**—As the Navy's major off-duty education system, it provides a number of specific services to its customers, the men and women of the Navy. For example, a key feature of the system is a network of professional educational advisors who can provide the following services:

Review work experience including all educational and vocational training, both in-service and out.
Help analyze personal goals and capabilities.
Advise of available off-duty opportunities which will help attainment of educational goals.
Assist in securing financial aid when appropriate.

Help plan for placement in vocational/technical schools, colleges and universities.

Assist in obtaining admission to full-time college programs such as the Naval Academy, NROTC, and other college programs financed totally by the Navy. (Some of these programs are briefly described in the U. S. Marine portion of this section)

Periodically monitor progress and assist movement toward educational goals.

This advisory network is now scheduled to grow to a total of 162 educational advisors. When completed, the network will include advisors in the Pacific area and Europe as well as in the continental United States.

Other key features of NCFA include elimination of residency requirements, and the granting of civilian academic credit for Navy service school training as well as for such other methods of instruction as correspondence courses, extension courses overseas, on-the-job training, and experience, and College Level Entrance Examination Program (CLEP). In addition, whereas previous programs were strictly college degree oriented, NCFA will provide tuition assistance for vocational technical trade courses at both public and private institutions, so long as the institution is accreditd by the National Association of Trade and Technical Schools.

A central NCFA training record will be maintained on each Navy person to tabulate individual credits from all training sources. The NCFA concept is designed to meet the educational needs of mobile Navy personnel. Once accepted by a participating NCFA institution, a member will normally have 10 years in which to complete his or her degree/certification studies. During this period, provisions have been made to allow credit for both "on campus" and independent study programs which are agreeable to the institution granting the degree or certificate.

While the number of participating schools, as well as the NCFA advisor network is being expanded, the system includes eight degree granting institutions as of January, 1975. NFCA extends to all Navy uniformed personnel on continuous active duty.

U.S. AIR FORCE

A. Enlistment Programs:

All male and female applicants entering the Air Force will be enlisted under one of the following enlistment options:

1. **Enlistment Options:**

a. Guaranteed Training Enlistment Program

(1) Enlist for training in a skill with guarantee of training and initial assignment in that skill.

b. Aptitude Index Enlistment

(1) Enlist in one of four AF aptitude areas (mechanical, administrative, general or electronic), without a specified job. Job classification and assignment will be made during basic training based on AF needs, test scores and the applicant's desires. Enlistees are guaranteed that they will not be changed to another aptitude area unless they volunteer and are qualified for a special skill or job in that area.

2. **Term of Enlistment:**

a. The minimum term of enlistment is four years under any of the above enlistment options.

b. A six-year term of enlistment option is available, on a voluntary basis, to applicants who qualify and obtain Guaranteed Training Enlistment Program assignments in 61 specific jobs and those who enlist in the Electronic aptitude index, with an aptitude score of 80 or higher.

Early promotion to grade E-3 is guaranteed as a consideration for those who volunteer for the six-year option.

3. **Enlistment Grade or Promotion Guarantee:**

a. Normal enlistment grade is E-1, Airman Basic, with eligibility for promotion to grade E-2, Airman, after completion of four months of active duty.

b. Applicants in the following categories are enlisted in grade E-2, Airman:

(1) Served 90 days or more in the active Armed Forces or Service Academy and were separated in Grade E-2 or higher.

(2) Completed the entire Junior ROTC Program and graduated from high school.

(3) Completed two or more years of college ROTC.

(4) Completed the Civil Air Patrol training program or were awarded the General Billy Mitchell Award.

c. Applicants who qualify for and are authorized enlistment for the six-year option are guaranteed promotion to grade E-3, (Airman First Class) after successful completion of basic military training.

B. Training:

1. **Recruit Training**—All Air Force recruit training is conducted by the Basic Military Training School (BMTS) at the Air Force Military Training Center, Lackland AFB, Texas.

Recruit Training or Basic Military Training (BMT) as it is called in the Air Force, is six weeks (30 training days) in length. The purpose of BMT is to provide an orderly transition from civilian to military life, and to provide the motivation to become a dedicated and productive member of the Air Force who possesses the basic skills which are required by all members of the Air Force. The training emphasizes discipline, observance of military rules, social conduct, physical conditioning, and the building of self-confidence and pride in being a member of the Air Force.

The BMT curriculum includes 243 hours of transition training and 159 hours of military training. The transition training covers such subjects as in-processing, dormitory inspections, and confidence courses, while the military training covers such subjects as drill, physical conditioning, marksmanship training, and human relations.

The BMT graduate has the basic knowledge and skills required to qualify him or her, after formal or on-the-job training in a particular skill, to assume duties in an operational unit.

2. **Technical Training**—The goal of Air Force Technical Training is to provide personnel with the skills required to perform the Air Force mission. Initial specialized skill training provides personnel entering the Air Force with principles and systems training required to perform satisfactorily on their first job assignment. Skill progression training provides career personnel with the in-depth knowledge required to perform at the skilled supervisory levels. Methods involved include advanced, lateral, supplemental, special resident, factory, and field training courses, as well as self-study career development correspondence courses. Advanced training and career development courses are broad based, covering most aspects of the Air Force Specialty, while supplemental and special courses are oriented toward specific equipment or techniques.

Courses are constructed using the principles and techniques of the Instructional Systems Development (ISD) program. ISD is simply the application of the systems approach to course construction, resulting in the most cost effective training possible. The process insures that training is relevant to requirements, providing neither more nor less training than is required to meet a specific goal.

Specific tasks to be learned are developed from the Specialty Descriptions and from the Specialty Training Standards which document the extent and level of training required by the job. Courses are evaluated using student critiques, field visits, graduate supervisor interviews, and questionnaires.

C. Promotion Opportunities:

1. **Air Force Promotion Policy** gives every airman an equal chance against every other airman for promotion. All airmen, regardless of their job, receive the same chance for promotion to the next higher grade. This opportunity is expressed as the percentage of the eligibles who will be promoted.

2. **Promotion Patterns**—Promotions to Airman, Airman First Class and Sergeant are on a fully-qualified basis. This means that if you are eligible and are recommended by your commander as being qualified, you are promoted. Normally, you will be promoted to Airman upon completing 4 months of service, to Airman First Class after 12 months of service, and to Sergeant between the 24th and 36th month of service.

Competition for promotion to Staff, Technical, and Master Sergeant is under the Weighted Airman Promotion System (WAPS). Airmen are selected for promotion under the WAPS based on the following factors and maximum points:

FACTOR	MAXIMUM POINTS
Specialty Knowledge Test (SKT) Score	100
Promotion Fitness Examination (PFE) Score	100
Time in Service	40
Time in Grade	60
Decorations (Awards)	25
Performance Reports	135
TOTAL	460

Under the WAPS, all eligible airmen compete worldwide with all other airmen in the same grade and job. Each nonselected airman is provided a promotion score which tells him or her the number of points required to get promoted and where improvement must be made to receive a higher score.

The average time in service for promotion to Staff Sergeant, Technical Sergeant, and Master Sergeant is currently about 5 years, 14 years, and 17 years, respectively.

Promotion to Senior Master Sergeant and Chief Master Sergeant is based on competition at a central selection board. Again, everyone enjoys equal selection opportunity. The average time in service at promotion to Senior Master Sergeant is approximately 19 years. The average time in service at promotion to Chief Master Sergeant is approximately 20-1/2 years.

D. Personnel Assignment:

1. **Needs of the Service**—The objective of the assignment system is proper and timely assignment of Air Force personnel to permit effective and sustained mission accomplishment. Mission requirements and operational efficiency are the first considerations in assignment actions, but to the maximum extent possible, individual preferences, career progression and objective needs, and welfare are also considered.

The assignment system is an integral segment of airman resource management within the Air Force and serves as the framework for placing members in jobs (requirements). Essential to the assignment process is the management activity to procure and train personnel to fill identifiable needs; to describe accurately those needs in terms compatible with individual characteristics and to distinguish between the priorities of the jobs, units and locations to assure optimum distribution utilization of those resources. These decisions are based on a complex of characteristics the individual may (or may not) possess and couple with outstanding Air Force requirements, total force structure and related objectives, sustainment policies, Air Force utilization and career development concepts and practices, and the felt, stated, or implied needs and desires of the individual. This process allows for the orderly growth of Air Force personnel through planned, systematic training and assignment actions while satisfying the needs of the Air Force.

2. **Personal Wishes**—In the area of assignments the primary concern is getting the right man/woman in the right job at the right time. While the world-wide mission of the Air Force is the first consideration, the Air Force is acutely aware that "people" considerations play an increasing role in the policies and procedures by which the Air Force manages the assignment system. Without the pressure of the draft it is vital that Air Force assignment programs and policies contribute their share toward making the Air Force attractive to its people. In accomplishing this, there are numerous ways that individuals may identify their desires and aspirations and assist in influencing their assignment preferences and goals. Career objective statements, oversea volunteer statements, oversea returnee preferences, special duty applications, base of preference programs provide the framework for each and every member to have a say in his future assignments. These stated desires are honored in-so-far as possible consistent with the needs of the Air Force.

3. **Length of Duty Assignments**—Air Force personnel are reassigned only to meet valid military requirements. There is no standard tour of duty in the Air Force except for members located oversea and in certain Continental United States activities and positions where a fixed tour length is required to assure mission continuity. Oversea tour lengths range from one to three years depending on the area, the facilities available and whether or not families are authorized. Individual requests for extension of oversea tours beyond the prescribed tour length are authorized and encouraged.

Tour lengths for certain continental United States activities and positions range from two to five years with provisions for individual initiated extensions. The tour lengths for these activities and positions are determined based on the needs of the Air Force.

E. Advanced Education Programs:

1. **NonCommissioned Officer Professional Military Education (NCO PME)**—The schools in this system are designed to make our first-line supervisors more effective in the day-to-day operation of the Air Force. The role of NCO PME is becoming increasingly important in the all-volunteer environment and as resources become ever scarcer. NCO PME is a progressive system consisting of leadership schools for Junior NCOs, NCO Academies for intermediate grade NCOs, and finally, the Senior NCO Academy for the top two enlisted grades.

2. **The College Level Examination Program (CLEP)**—This rapidly expanding program allows airmen to complete selected college courses by examination. The program is free and the Base Education Services Center maintains a current list of college tests available through the CLEP program.

3. **The Extension Course Institute (ECI)**—The Extension Course Institute is the Air Force's correspondence school. It offers nearly 400 courses to some 250,000 students who register for ECI courses annually. These courses include everything from fundamentals of solid state devices to apprentice carpentry. Many Air Force personnel enroll in courses like auto mechanics, plumbing, carpentry, or electrical wiring simply for background knowledge. The courses are free and are open to both officers and airmen.

4. **The Air Force ROTC Scholarship Commission Program**—This program allows airmen to complete their degrees and earn their commissions by using either a two or four-year Air Force ROTC scholarship. If selected for the program, transfer from active duty into the Air Force Reserve is effected, then attendance at college (simultaneously enrolling in the Air Force ROTC program at the college) for completion of degree requirements. Following graduation, attendance at either pilot or navigator school is required.

The scholarship pays tuition, fees, and $100 a month. G.I. Bill benefits may also be collected while attending college. To be eligible for the ROTC Scholarship Commissioning Program, requirements to qualify for either pilot or navigator school must be passed and the applicant must have completed one year of active duty with the Air Force. The program is highly competitive.

5. **Community College of the Air Force (CCAF)**—CCAF is a career education institution. It includes instruction from the Air Training Command (ATC) Schools of Applied Aerospace Sciences at Chanute AFB, IL, Keesler AFB, MS, Lackland AFB, TX, Lowry AFB, CO, and Sheppard AFB, TX; the School of Health Care Sciences, Sheppard AFB, TX; the School of Applied Cryptologic Sciences, Goodfellow AFB, TX, and the educational programs and facilities of hundreds of cooperating civilian institutions available through local base education offices.

CCAF was instituted for four purposes: to integrate the on-duty and voluntary education of the airman into a consistent, meaningful pattern of growth toward attainable career objectives; to have Air Force instruction recognized for its full value by those organizations which set standards for individual qualifications and institutional excellence; to improve the educational and career related incentives for recruitment and retention of high quality personnel in the U. S. Air Force; and to develop the future force of Noncommissioned Officers for its role of leadership in a high-technology Air Force.

Specifically, the college is responsible for implementing or monitoring; accreditation of Air Force education and training activities by external accreditation agencies; recognition of Air Force education and training activities by professional, industrial and governmental organizations having licensing certification and standard-setting authority; development of post-secondary career education programs resulting in the award of appropriate certificates; operation of an automated central transcript service; issuance of a catalog describing CCAF academic practices and programs available in accredited Air Force schools; and development of procedures for making available unclassified materials from Air Force technical training programs for use in civilian schools.

U.S. MARINE CORPS

A. Enlistment Programs:

The Marine Corps has both general and special enlistment programs for men and women. Enlistments vary in length and can be three, four or six years depending upon the program. Special enlistment programs generally apply to guarantees of a type of training to be received and bonuses for specialized fields. Physical and mental qualifications vary and are set by regulations.

1. **General Service Enlistment:**

a. **Qualifications**—Male and female; be physically, mentally and morally qualified in accordance with current enlistment directives.

b. **Terms of Service**—3, 4 or 6-year enlistments.

c. **Choice of Duty Assignment**—Choice of duty assignment is not available for General Service enlistees. Assignment is made according to the qualifications of the individual and the needs of the Marine Corps.

d. **Choice of Geographical Area**—Choice of geographical area is not offered to General Service enlistees. Female applicants, however, may elect a general, geographic area option, upon enlistment.

2. **Special Enlistment Programs:**

a. **Combat Arms Enlistment Bonus**—

(1) **Description:** A monetary bonus is provided with enlistment to the specific occupational fields of infantry, artillery, and tank and amphibian tractor.

(2) **Prerequisites:** Male only: enlist for a period of four years. Be physically and morally qualified

in accordance with current directives. Possess higher than the minimum mental qualifications for enlistment. Be a high school graduate.

b. **Expanded Enlistment Program**—

(1) **Description:** A monetary bonus is provided with the enlistment for the occupational fields of: telephone technician, cable systems technician, central installer repairman, ground and aviation radio repairman, aviation meteorological equipment repairman, electronic calibration technician, communications security equipment technician, radar repairman, counter-mortar radar technician, air traffic control navigational aids repairman, air traffic control radar repairman, air traffic control communications repairman, teletype repairman, and microwave equipment repairman.

(2) **Prerequisites:** Male and female: enlist for a period of four years. Be physically and morally qualified in accordance with current directives. Possess higher than the minimum mental qualifications for enlistment. Possess the necessary aptitude in the technical field desired. Be a U. S. citizen. Be a high school graduate.

c. **Ground Enlistment Options**—

(1) **Description:** Programs exist which provide training in occupational fields such as: combat*, combat support*, administrative, supply, logistics, disbursing, mechanical, electrical, radio communications*, electronics, food service, infantry*, motor transport (operator only), computer operations and military police/corrections specialist.

(2) **Prerequisites:** Male and female, except where noted: Enlist for a period of three to four years depending upon the program. Be physically and morally qualified in accordance with current directives. Possess higher than the minimum mental qualifications for enlistment. Possess the necessary aptitude in the technical field desired. Be a U. S. citizen for certain fields. Be a high school graduate for certain technical fields.

d. **Aviation**—

(1) **Description:** A program exists which provides duty in the aviation occupational fields of: aviation technology, aircraft ordnance/maintenance (male applicants only) and aviation administration and support.

(2) **Prerequisites:** Vary depending on the occupational field selected.

e. **Musician**—

(1) **Description:** Programs exist which provide duty with the U. S. Marine Band (the President's own) or other musical units within the Marine Corps.

(2) **Prerequisites:** Male and female: Be physically, mentally and morally qualified in accordance with current directives. Auditioned and found musically qualified. Enlist for a period of four years for the U. S. Marine Band, three or four years for duty with other musical units within the Marine Corps.

(3) **Advancement:** Promotion to Staff Sergeant upon enlistment for the U. S. Marine Band. Accelerated promotion is available with assignment to other musical units within the Marine Corps, dependent upon the applicant's qualifications.

f. **Medical Remedial**

(1) **Description:** To provide the opportunity for highly qualified applicants, who are disqualified for a single remedial defect, to enlist and have such defect remedied upon entry on active duty.

(2) **Prerequisites:** Male only: Enlist for a period of at least three years. Be otherwise physically and morally qualified in accordance with current directives. Possess higher than the minimum mental qualifications for enlistment.

---

*Male only

g. **Delayed Enlistment**—

(1) **Description:** The opportunity exists for applicants to enlist, but delay entrance to active duty for up to a period of 180 days. Under certain conditions, highly qualified individuals may delay enlistment up to a period of 270 days.

(2) **Prerequisites:** Male or female: Enlist for a period of 2, 3, or 4 years. Be physically, mentally and morally qualified in accordance with current enlistment directives.

B. Training Programs:

1. **Basic Training**—Recruit training is an 11-week period encompassing training in those subjects required to produce a basic Marine rifleman who is able to sustain himself on the battlefield, function effectively in garrison, and practice those personal and professional traits that distinguish him as a Marine. This training is conducted at Parris Island, South Carolina, and San Diego, California.

2. **Technical or Advanced Training**—The assignment to technical schools is dependent upon the scores received on the battery of aptitude tests administered during initial entry into the Marine Corps. The length of technical and/or advanced training varies according to the military occupational specialty (MOS) assigned either as a guarantee or during recruit training. The length of formal schools ranges from a low of three weeks to a high of 52 weeks. Assignment to some technical courses requires completion of a prerequisite course. An attempt is made to fulfill the desires of the individual while meeting the Marine Corps' overall manpower requirements.

C. Promotion Opportunities:

Promotions are based on proficiency, knowledge and leadership. A limited number of outstanding Marines are promoted at the completion of recruit training. Many others merit promotions during subsequent advanced or technical schools they are attending. Generally, promotions to Private First Class and Lance Corporal are effected after a minimum period of time has passed and the Marine has gained the necessary expertise and exhibited the required leadership. Promotions to Corporal and Sergeant are based on total Corps needs and are effected several times a year. Individual Marines must possess a score equal to or higher than a score established by Headquarters Marine Corps for their occupational field. The Commander has the obligation to insure that not only is the minimum score obtained but that the Marine is deserving through his proficiency and leadership. Promotion to Staff Sergeant and higher is effected by a board convened annually at Headquarters Marine Corps. These boards review records of all eligible Marines and select the best qualified for promotion.

D. Personnel Assignment:

1. **Needs of the Service**—Marine Corps assignments are designed to provide varied and challenging opportunities while simultaneously providing career development. The following criteria are given full and deliberate consideration in making assignments:

a. The needs of the Marine Corps.

b. The preference of the Marine.

c. The capabilities/qualifications of the Marine.

d. The career development of the Marine.

e. Possible personal hardships.

f. Ensuring that, within the limitations of law, assignments are made without regard to race, creed, or sex.

2. **Length of Duty Assignments**—For enlisted Marines, upon completion of entry level training, classification to a primary military occupational specialty, and assignment to a permanent duty station in the continental United States, the tour length is normally at least one year. Subsequent to the first overseas tour, each enlisted Marine can expect to normally remain in the continental United States at least five years unless he sooner volunteers for an oversea assignment. Oversea assignments are in accordance with Department of Defense policy and range from 12 to 36 months. Oversea tour lengths generally reflect the desirability of the geographic location.

E. Advanced Educational Programs:

1. **Naval Academy Preparatory School**—The Naval Academy Preparatory School is available to enlisted Marines who desire to enter the U. S. Naval Academy. Graduates of the Naval Academy may be appointed to commissioned grade in the Navy or Marine Corps. The Marine Corps is authorized to commission 16.66 percent of each graduating class of the Naval Academy. Preference for appointment in the Marine Corps is given to Midshipmen who were formerly enlisted men of the Marine Corps or Marine Corps Reserve, and to those who are sons of career Marines. At the beginning of the senior year, each Midshipman selects assignments to one of seven Navy occupational fields, or the Marine Corps. Those Midshipmen who elect the Marine Corps and are accepted, are commissioned as regular officers upon graduation.

2. **Navy Enlisted Scientific Education Program (NESEP)**—This program is designed to provide the Marine Corps with regular officers with a scientific background and is open to all active duty Marines who meet the eligibility requirements. It provides an opportunity for outstanding enlisted men and women on active duty to achieve a college degree and a career as a Marine officer. The Marine who successfully completes the program will receive a baccalaureate degree in the areas of science, mathematics or engineering, and a commission as a second lieutenant in the regular Marine Corps.

3. **Marine Corps Enlisted Commissioning Education Program (MECEP)**—This program is designed to provide the Marine Corps with regular officers possessing a baccalaureate degree in areas other than engineering, mathematics or the sciences. It provides an opportunity for outstanding enlisted men and women on active duty to achieve a career as a Marine Corps officer. The Marine who successfully completes the program will receive a baccalaureate degree and a commission as a second lieutenant in the regular Marine Corps.

U.S. COAST GUARD

A. Enlistment Programs:

Coast Guard Regular enlistments are for four years active duty. Under the Coast Guard's Guaranteed School Program, qualified applicants can be guaranteed their choice of a specific occupational training program, in writing, before they ever enlist (provided class openings are available). Qualified applicants may also enlist up to 12 months prior to commencing active duty. Those persons who have special training in skills needed by the Coast Guard can enlist under an advanced promotion program whereby they will be promoted to pay grade E-3, E-4, or E-5 immediately after recruit training. The age limits are 17-26 for both men and women.

B. Training Programs:

1. **Recruit Training**—Preparation for duty with the Coast Guard is conducted at Alameda, CA and Cape May, NJ. Female enlistees are assigned to Cape May while male enlistees may be assigned to either training center, depending on which is closest to his point of enlistment. Boot camp, which is approximately nine weeks long, is designed to provide a smooth transition from civilian life to that of service with the Coast

Guard. Training, which includes orientations on the history of the Coast Guard and its missions, is designed to instill in each trainee a sense of team work and discipline. Courtesies of the service, physical training, customs and basic disciplines are all a part of the training course, which includes classroom work and practical application of the subjects studied.

2. **Advanced or Specialized Training**—The Coast Guard maintains basic petty officer (Class "A") schools for qualified personnel desiring formal training in specific occupational specialties. Courses of study in these class "A" schools vary from 10 to 34 weeks in duration depending on the rating or specialty area taught. Each school provides a curriculum based on the qualifications required for advancement to the third class petty officer level. Department of Defense specialty schools are also utilized in addition to or in lieu of Coast Guard schools for certain ratings. Upon successful completion of class "A" school, the graduate is considered a basically qualified specialist and can expect assignment to a field unit for duty and further on-the-job training in his or her specialty.

Opportunities for additional formal professional training are available to qualified career-oriented personnel in the form of advanced petty officer (class "B") and special (class "C") schools. Class "B" schools provide curricula based on theoretical and practical knowledge required of a rate higher than petty officer third class. Class "C" schools provide training based upon specific skills which are in addition to the qualifications for a particular rate or rating. These advanced schools range from a few weeks to several months in duration depending on the skills taught. Senior enlisted personnel in certain ratings are also eligible to compete for assignment to special degree programs within their respective specialty areas.

C. Promotions:

A Coast Guard seaman recruit (E-1) is promoted to seaman apprentice (E-2) upon completion of basic training.

Eligibility for promotion to seaman or fireman (E-3) is based on four requirements: (1) adequate time-in-grade; (2) successful demonstration of military and professional qualifications; (3) recommendation of the Commanding Officer and (4) completion of correspondence courses.

To earn petty officer ratings (E-4 through E-9) an individual must, in addition to requirements above: (1) complete correspondence courses or service schooling and (2) pass the Coast Guard-wide competitive examination for the rating. Promotion is based only upon the service-wide examination. The Coast Guard has an accelerated program whereby those men possessing special training in needed skill areas are promoted to E-4 or E-5 immediately after recruit training.

D. Personnel Assignments:

The Coast Guard's assignment process takes into consideration two primary factors: the needs of the service and the preferences of the individual service member. Although service needs must take precedence whenever there is a conflict, personal preferences are given the maximum possible consideration. Officer and petty officer personnel assignments are made from one central location at CG Headquarters.

Personnel completing recruit training may be assigned either to an operational unit or to a petty officer school. Those assigned to an operational unit may later attend a petty officer school or they may learn a skill and advance in pay grade through on-the-job training. All personnel in pay grades E-4 and above are assigned by a rating manager at Coast Guard Headquarters who considers the desires of all personnel in a particular rating (specialty) and attempts to fit these desires to the overall needs of the Coast Guard. This method of Centralized Assignment Control has proven to be the most equitable means of assigning personnel, allowing the Coast Guard to fairly distribute the preferable, as well as the less desirable duty among all Coast Guard members.

Tour lengths vary from one to four years depending upon the location of the assignment, the nature of the duty, and the preferences of the individual. The Coast Guard maintains a number of oversea stations, most of them involved in aids-to-navigation. Some of these units are in isolated areas and are preferred by some service members. Each member can expect to serve his fair share of less desirable duty, but Centralized Assignment Control ensures that the member will serve only a minimal amount of time aboard these type units.

A normal sea/shore ratio is established for each Coast Guard rating based upon the number of sea duty billets compared to the number of shore duty billets. Each rating manager ensures that, over a 20 or 30 year career, each serviceman will serve at sea and ashore in a ratio approximately equal to the normal sea/shore ratio. Due to the difficulty and costs of reassigning personnel in their first enlistment, no attempt is made to establish a sea/shore ratio for personnel in their first four years.

First enlistment personnel are not normally transferred at government expense after being assigned to a permanent duty station. Exceptions to this rule include personnel in oversea assignments and personnel whose transfers are unexpectedly dictated by service needs. Personnel may be granted no-cost transfers of three varieties.

Members may be reassigned in the local area (such as from an afloat assignment to a shore assignment in the same town), or the individual may request a mutual exchange of stations or a unilateral assignment at his own expense. These latter two are known collectively as autogenous transfers and are permitted whenever not in conflict with service needs. In addition, humanitarian assignments are permitted to relieve genuine hardships.

A Coast Guardsman can expect to spend the majority of his/her career within the contiguous 48 states, primarily on the East, West, or Gulf Coast. The Coast Guard also has a number of units on the Great Lakes and along the Midwest's river system. At some point in his/her career, a Coast Guardsman should expect to serve one or more tours of duty in an oversea assignment. The amount of sea duty varies according to the individual's rating and might range from a slight majority to a small fraction of the career.

The Coast Guard, the smallest of the military forces, prides itself in its ability to give personal consideration to the needs of its members in the personnel assignment process.

E. Advanced Educational Opportunities:

1. **Tuition Assistance Program**—The Coast Guard sponsors a tuition assistance program for off-duty education, within the limits of available funds. This program allows Coast Guard personnel, both officer and enlisted, to enroll in off-duty courses at accredited colleges, universities, junior colleges, high schools and commercial schools. The tuition is paid by the Coast Guard for all courses not in excess of six credits per semester (or quarter) or for any course not extending beyond one semester or a maximum of 17 weeks, whichever is longer.

2. **Physician's Associate Program**—The Physician's Associate Program is a two-year, full-time course of study at the Duke University Medical Center, Durham, NC. The program includes nine months of elementary scientific principles, terminology and basic medical science and fifteen months of clinical training. Upon successful completion, Coast Guard graduates receive their certificates as Physicians Associates and a direct commission as Chief Warrant Officer (MED-PA). In some cases when the student has had additional college courses, completion of the program may result in receiving a Bachelor Degree in Health Science.

A Physician's Associate should be capable of approaching the patient, collecting historical and physical data, and presenting them in such a way that the physician can visualize the medical problem and determine appropriate diagnostic of therapeutic steps. He is also capable of assisting the physician by performing diagnostic and therapeutic steps and coordinating the roles of other, more technical assistants. While he functions under the general supervision of the physician, he might, under special circumstances and under defined rules, perform without the immediate surveillance of the physician.

To be eligible to apply for the Physician's Associate Program an enlisted person must:

a. Be serving in second or subsequent enlistment in pay grade E-5 and above and must be a Hospital Corpsman.

b. Be a high school graduate or its equivalent.

c. Have completed with a C or better at least one course in chemistry and one course in biology from an accredited junior college, college or university.

d. Have obtained a qualifying score on the Scholastic Aptitude Tests (SAT).

e. Be willing to extend his/her enlistment or reenlist in order to have six years of obligated service as of the class convening date.

f. Be recommended by your commanding officer.

3. **Electronics Technology Course**—The advanced electronics training program for enlisted personnel is conducted at several locations throughout the country, such as DeVry Institute of Technology, Northrop Institute of Technology, Oklahoma State University, Wentworth Institute, etc. While the specific courses of study utilized by the Coast Guard vary somewhat from school to school, they all provide an acceptable practical and theoretical mix of current state-of-the-art electronics. Electronics technology institutions prepare a Coast Guardsman for duty as an Engineer's Assistant. Engineer's Assistants assist in the design and specification of equipment and equipment modification at headquarters, headquarter's units, district offices, major vessels and larger shore units during their career. The programs at these institutions are all full time resident courses, which in most cases result in the awarding of an Associate Degree.

To be eligible to apply for the electronics technology course an enlisted man must:

a. Be serving in second or subsequent enlistment and in pay grade E-6 or above in one of the following ratings: Aviation Electrician's Mate, Aviation Electronics Technician, Electrician's Mate, Electronics Technician, Electronics Technician (Communications), Sonar Technician, Telephone Technician, and Fire Control Technician.

b. Be a high school graduate or have established equivalency of high school diploma by passing the General Educational Development Test, high school level.

c. Be not more than 32 years of age.

d. Be physically qualified for enlistment in the Regular Coast Guard.

e. Agree to reenlist or extend his/her enlistment to meet the obligated service of 6 years as of the convening date of the class to which assigned.

f. Be recommended by your commanding officer.

MILITARY RESERVE COMPONENTS

General:

Young men and women without prior military service may enlist in a reserve program if they qualify. Application for enlistment can be made with any local organized reserve unit of the Army, Navy, Marine Corps or Air Force, to include the Army and Air National Guards, and Coast Guard recruiting offices.

All reserve programs require enlistees to serve some time on active duty for training. (Details of the various programs, by service, follow below.) Normally, most of the reservist's period of active duty for training is spent in basic training and basic technical schooling or on-the-job training in a military occupational specialty.

Upon completion of active duty for training, the reservists return to the local unit in which enlisted and serve with that organization until the terms of their enlistment have been fulfilled.

Throughout the following information on reserve programs, the term "ready reserve" will be found. Generally, this term describes those units and individuals that are immediately available to be ordered to active duty in a national emergency declared by the President or when otherwise provided by law. All ready reservists described in the following paragraphs belong to organized units and attend drills.

Reserve Unit Training:

Reservists in organized units are required to attend training assemblies or drills regularly throughout the year, and must spend from 14-17 days in full time, annual training. The annual training may be conducted at a site away from the member's home, thus requiring the member to be away for that period. All reserve component paid drill units are required to conduct a minimum of 48 training assemblies/drills a year. One weekend is the equivalent of four training drills. These assemblies are held in the evenings or on weekends, or a combination of both. The annual training period is normally scheduled during the summer.

Pay:

Reserve pay is based on the armed forces pay scale for grade and length of service. Members receive one day's pay of each drill attended. If two assemblies are held on one day, the member may be entitled to two day's pay. In addition, they receive one day's pay for each day of annual training. Thus, an enlisted reservist who has been promoted twice and has over three years service can receive about $815 a year for participating in ready reserve training.

Military Occupations:

Enlistees in the reserve programs are accepted to fill vacancies in military occupations which meet the needs of the particular unit they join. In accepting enlistees for these occupations, assignment officers consider the new reservist's education, aptitudes, civilian experience and personal preferences. The training necessary to become qualified in the military occupation is provided during the reservist's initial tour on active duty. Reservists may attend regular service schools to improve military occupation skills and may also enroll in service-sponsored correspondence courses following initial active duty for training. Since most military jobs parallel civilian occupations, in many cases, reserve training can help with progress in civilian employment.

Promotion:

In each of the reserve branches there is a promotion system separate from that of the regular services. Reservists compete for promotion only with other reservists of their service or unit. Outstanding individuals may qualify for appointment as commissioned officers.

Reserve Components:

The reserve components are composed of the National Guard (Army and Air), the Army Reserve, the Air Force Reserve, the Navy Reserve, the Marine Corps Reserve and the Coast Guard Reserve.

NATIONAL GUARD:

The Army and Air National Guard are volunteer military organizations within each state, composed of civilians who train part-time for local and national protection. The nearly 5,000 Guard units are located in all 50 states, the Commonwealth of Puerto Rico, the District of Columbia and the Virgin Islands.

The National Guard has a dual status and mission. As a state organization of which the governor is commander-in-chief, the unit and members may be ordered to active state service in times of local emergencies or disasters.

The Army National Guard and the Air National Guard are also reserve components of the U. S. Army and U. S. Air Force respectively, and can be ordered into active federal service in the event of national emergency, war or when otherwise provided by law. In their position as the Army National Guard of a state, units and members may be called into federal service during certain local emergencies.

Army National Guard unit training includes infantry, armor, air defense artillery (including missiles), field artillery, medical, ordnance, transportation, engineer, administrative, communications, military police, chemical, aviation, special forces, airborne and other special areas of military endeavor.

Air National Guard units train for air defense, tactical fighter, air refueling, tactical reconnaissance, global transport, communications, electronics, weather and aeromedical missions. They are equipped with up-to-date aircraft including many supersonic jets.

Some Army and Air National Guard units perform, as part of their training, actual missions for the active defense of the nation. For instance, Air National Guard heavy transports carry cargo all over the world for the Air Force Military Airlift Command and the Air National Guard communications units install and repair electronic equipment for the Air Force. In addition, Air National Guard fighter interceptor squadrons keep part of their units on round-the-clock alert defending the skies for the North American Air Defense Command.

Women may apply for any Air Guard unit vacancy that is not related to combat. Non-prior service women must be 17-35 (parental consent needed if 17). Basic training and technical school requirements are the same for all Guardsmen—must equal four months of active duty.

Male enlistees, 17-35, with no prior service enlist for six years and take active duty for training. The length of this training is dependent upon the skill for which the individual is being trained, which may be shortened by certain civilian acquired skills or training as determined through special tests. The minimum requirement for training is four months. Additional training, upon voluntary consent, is authorized for certain skill areas. Seventeen-year-old enlistees need parental consent.

ARMY RESERVE:

Men and women applicants of the Army Reserve must be between the ages of 17-26. The initial required period of active duty for men is a minimum of four months (Basic Combat Training and Advanced Training) and is slightly less for women. The Army Reserve offers the prospective enlistee a choice of schooling in hundreds of useful skills—such as medical, mechanical or clerical—most of which can be subsequently applied to civilian jobs. Upon completion of their active duty, the reservists attend unit drills which usually meet one weekend per month. Two weeks each year are spent at Annual Training at an active military installation where reservists have the chance to apply their military skills in interesting and challenging training situations.

NAVY RESERVE:

Qualified young men between 17-31 of age may enlist for six years including two or three years of active duty. Initial active duty for training begins within 180 days of date of enlistment. The Naval Reserve also has a six-month active duty for training program for qualified young men 17-31 years old who live within a reasonable commuting distance of a Naval Reserve unit. Under this program, an enlistee incurs a six-year total service obligation: approximately six months of active duty for training (for recruit training and basic technical training) and five-and-one-half years as a member of an organized drill unit.

AIR FORCE RESERVE:

Air Force Reserve personnel train in unit and individual programs for tactical air support, tactical and military airlift, civil engineering, electronics, rescue and medical missions among others. Enlisted reserve programs are available to qualified persons with or without prior service. Women may apply for all Air Force Reserve positions except those that are combat related. To enlist, women without prior service must be between 17-35, inclusive (parental consent is required if the applicant is age 17). Basic training and technical school requirements are the same for all Air Reservists. Women may enlist for two to six years. Non-prior service male applicants may be between the ages of 17-26 and enlist for a period of six years. Applicants 27-34 inclusive may enlist for two to six years. All reservists must serve an initial active duty tour of not less than four months. During this period the individual attends basic training and a technical school. This period may be extended to accommodate a longer technical school requirement. Reservists are required to attend unit training assemblies with their unit of assignment one weekend per month. Two weeks of annual active duty for training must be served each year, usually during the summer.

MARINE CORPS RESERVE:

The organized Marine Corps Reserve offers a 130-day active duty program for men 17-26 years of age. An enlistee attends the same boot camp and advanced training as every new Marine, then serves the remainder of his/her ready reserve obligation as a member of a hometown unit. He participates in drills one weekend a month and receives two weeks training each year, normally during the summer, at a major Marine Corps installation. Additional active duty for training may be requested in order to prepare a Marine reservist for a special assignment or to obtain special skill qualifications. In no case will an enlistee be assigned to active duty while still in attendance in high school.

COAST GUARD RESERVE:

Qualified non-prior service individuals between 17 and 26 can enlist in the Coast Guard Reserve for six years. Enlistees initially go on active duty for approximately 10 weeks: nine weeks basic training and the remainder in a specialized training school and on-the-job training. Upon completion of the 30 weeks initial active duty, the Reservist returns to his local unit for one weekend a month and two weeks annual active duty. Qualified men between 26 and 35 and qualified women between 20 and 35, with a skill needed by the Coast Guard Reserve, can enlist for three years in a petty officer rating. After enlistment, they attend two weeks military orientation at Coast Guard Reserve Training Center, Yorktown, VA, then return to their local unit where they attend meetings one weekend a month and two weeks annual active duty. Additionally, prior to completing their second year of service, they will attend a two-week rating related school at either Reserve Training Center, Yorktown, VA, or Training Center, Alameda, CA.

Prior service personnel (to age 42) who were E-3 or above and who have a favorable reenlistment designator may enlist in the Coast Guard Reserve for two or three years. Individuals in this category receive no basic training. They are usually given a rating equivalent to the one they previously held. They attend meetings one weekend a month and have two weeks annual active duty.

The Coast Guard Reserve is the only service to offer a "Split Initial Active Duty for Training Program." This program offers, to bona fide students (high school juniors or above, between 17 and 26), the opportunity to split their initial active duty between two consecutive summer vacation periods. The first summer is spent undergoing basic training at either Alameda, CA, or Cape May, NJ (all women will go to Cape May, NJ). Between the first and second summers, meetings will be attended normally one weekend every other month. During the second summer, personnel will undergo either a specialized training school, or on-the-job training —whichever they elect. After completion of the second summer, they will attend meetings one weekend a month plus two weeks annual duty.

STRUCTURE AND USE OF THE SOURCE BOOK

The Military/Civilian Occupational Source Book has been structured around three elements: The Department of Health, Education and Welfare, US Office of Education (USOE) Career Clustering System; the Department of Labor Dictionary of Occupational Titles (DOT); and the enlisted classification (job/rating) systems of the five military services.

DEFINITIONS:

Occupational Cluster Concept

Simply stated, the occupational cluster concept is an organizational approach which is directed toward the preparation of an individual with skills, knowledge and aptitudes required for job entry into a family or cluster of occupations. Its basic premise is the development of individuals with job entry capabilities for a number of related occupations rather than in-depth preparation for a specific single occupation.

The cluster concept approach to organization of content and instructions differs from conventional organizational approaches in terms of scope and depth. The typical vocational educational program, for example, is found at the secondary school level and is designed to prepare an individual extensively for a specific occupation such as carpentry, masonry or plumbing. On the other hand, the cluster concept in career education provides an individual with early awareness and exploratory learning opportunities, ending in the development of job entry competencies for several occupations found within an occupational cluster.

The fifteen career clusters identified by USOE are as follows:

1. Agri-Business & Natural Resources
2. Business & Office
3. Communication & Media
4. Construction
5. Consumer & Homemaking Education
6. Environment
7. Fine Arts & Humanities
8. Health
9. Hospitality & Recreation
10. Manufacturing
11. Marine Science
12. Marketing & Distribution
13. Personal Services
14. Public Services
15. Transportation

Dictionary of Occupational Titles (DOT)

The DOT, developed by the US Department of Labor, is probably the most comprehensive and widely accepted occupational information publication in existence. The occupations in the Dictionary have been arranged in a classification structure which identifies the individual occupations by six-digit code numbers.

The structure consists of two arrangements of jobs—the occupational group arrangement and the worker traits arrangement. These provide (1) a method of grouping jobs having the same basic occupational or worker trait characteristics, and (2) a standard approach to classifying the abilities, vocational experiences and/or potentials of workers.

For the group arrangement, jobs are grouped according to some combination of work fields, purpose, material, product, subject matter, service, generic term and/or industry as reflected in the first three digits of the code.

The last three digits of the code are based on the involvement of the functions of that job with data (4th digit), people (5th digit), and things (6th digit). In the worker traits arrangement, jobs are grouped according to some combination of required general educational development, specific vocational preparation, aptitudes, interests, temperaments and physical demands.

Each worker trait group is defined by presenting narrative information that describes the work performed, identifies significant worker requirements, suggests possible clues that may be useful in relating applicants for employment and the requirements and gives a general picture of typical training and method of entry pertinent to the jobs listed in the group. A more complete and explanatory definition of the DOT structure is presented in Volumes I and II of the publication itself.

Classification (Specialty/Rating) Systems of the Military Services

Each of the five armed services utilize classification systems identifying job specialty/rating which are similar in purpose but different in terminology and structure. The enlisted pay grades (ranks) range from E-1, the lowest grade, to E-9, the highest enlisted rank attainable.

US ARMY

Enlisted Military Occupational Specialty (MOS) Structure: The Army's enlisted MOS structure is the tool used for the classification, training, evaluation and career progression of enlisted personnel. Career Management fields are groups of related specialties that represent major subdivisions of the MOS structure and provide visible and logical progression from pay grade E-1 through E-9.

The Career Management Fields (CMFs) are further subdivided into subfields which contain groupings of the most closely related MOS's with the Career Management Field. The structure consists of 36 Career Management Fields, 80 Career Management subfields and 452 MOS's.

The MOS is a broad occupational identification that identifies a type of skill without regard to level of skills. The MOS code is a specific occupational identification that identifies both type of skill and level of skill.

The enlisted MOS code (MOSC) consists of five basic digits. The first three consist of two numbers and one letter. Collectively, they identify the military occupational specialty without regard to level of skill. The fourth digit is a number. In combination with the preceding three digits it indicates skill level within the MOS. The fifth digit is a letter. It identifies special qualifications which are common to a number of MOS and positions. The digit "0" is used in this position if the individual does not possess the special qualification or when the position does not require special qualifications.

Example:

12 B	Combat Engineer
12 B 40	Combat Engineer Squad Leader
12 B 4P	Combat Engineer Squad Leader qualified as a parachutist

Career planning provides for the optimum development and use of an individual by providing progression to pay grade E-9, opportunities for formal training, on-the-job training, civilian education and selective assignments necessary for progression to higher grades, counseling the individual soldier to assist in establishing proper career goals, classifying the soldier in terms of the highest qualifications and assigning him/her in accordance with the MOS attained and then motivating him/her by providing equitable promotion opportunities.

US NAVY

Enlisted Rating Structure: The Navy's enlisted rating structure is the primary administrative tool for the broad classification and identification of enlisted personnel. This structure consists of rates and ratings that are the framework for enlisted career development. It is a single, integrated structure, with emphasis on specialization at the lower petty officer (pay grades) levels. Senior petty officers at the upper levels (Pay grades E-7, E-8, E-9) possess broad military and technical qualifications.

The enlisted rating structure provides paths of advancement from pay grades E-1 through E-9. The structure consists of six general apprenticeships within pay grades E-1 through E-3 Fireman (FN), Seaman (SN), Airman (AN), Constructionman (CN), Hospitalman (HN), and Dentalman (DN), and approximately 71 ratings, both general and service, in pay grades E-4 through E-9.

A general rating is a broad occupational field, encompassing similar duties and functions, which require related patterns of aptitudes and qualifications, and which provide paths of advancement for career development. A general rating is identified by a two-letter abbreviation (PN-Personnelman, EO-Equipment Operator, EM-Electrician's Mate, etc.).

Service ratings are subdivisions of certain general ratings which, by delineating specific areas of occupational standards, provide for required specialization in training and utilization of personnel. A service rating is identified by a three-letter abbreviation and the duties, although related, are more specialized (ADJ- Aviation Machinist's Mate (Jets), ADR-Aviation Machinist's Mate (Reciprocating).)

All people entering the Navy are first identified within an apprenticeship; and when qualified, by a general or service rating.

Enlisted Classification Coding System: The Navy enlisted classification coding structure supplements the enlisted rating structure in identifying personnel who possess special knowledge and skills acquired through advanced schooling and/or on-the-job training. Rating series codes are four-digit codes normally preceded by a rating abbreviation (Personnelman-PN-2612 Classification Interviewer, Yoeman-YN-2512 Staff Writer, Boatswain's Mate-BM-0164 Assault Boat Coxswain) and identify personnel which possess additional skills that are related to a specific general or service rating. Only those individuals within the rating indicated may, when qualified be assigned a rating series code.

Special series codes are four-digit codes with no rating abbreviation (9514 Hydrofoil Craft Crewman, 5321 UDT Swimmer) and identify personnel who possess additional skills that are not related to any particular general or service rating. Any individual may, when qualified, be assigned a special series code.

Some classification codes start at the pay grade E-2 or E-3 level, but the majority require that an individual be in pay grades E-4 or above.

US AIR FORCE

AIRMAN OCCUPATIONAL CLASSIFICATION STRUCTURE

The basic unit of the Airman Occupational Classification Structure is the Air Force Specialty (AFS). Air Force Specialty Codes (AFSC's) provide a systematic means for: (1) identifying training and position requirements and individual qualifications, (2) facilitating personnel accounting, distribution, and assignment procedures, and (3) orderly staff planning and programming of personnel resources to meet force requirements. Airman AFSC's consist of five numerical digits. The first two digits identify the career field, the third digit combined with the first two digits identifies the career field subdivision, the fourth digit identifies the skill level of AFS, the fifth digit combined with the other four digits identifies the special AFS. When more specific identification requirements and individual qualifications are required, alpha suffixes or prefixes are authorized for use with numerical codes. An AFS alpha suffix identifies positions associated with particular equipment or functions with an AFS. An alpha prefix identifies an ability, skill, special qualification, or system designator not restricted to a single AFS.

Example:

29	Career Field: Communications Operations
293	Career Field Subdivision: Radio Operations
2937	Skill Level: Advanced
29373	Specific AFS: Radio Operations Supervisor
29373A	Suffix: Complete code of Radio Operations Supervisor (Airborne Command Post Communications)
A29373A	Prefix: Complete code of (aircrew) Radio Operations Supervisor (Airborne Command Post Communications)

Special duty identifiers are established as an adjunct to the airman classification structure. They identify position authorizations and individual airmen which are not performing an actual group of tasks on a semi-permanent or permanent duty basis. These duties are unrelated to any specific career field.

Reporting identifiers are established to provide identification for position authorizations and individual airmen which are not otherwise identifiable in the classification structure.

Helper level AFSC's are established for initial identification and management of airman personnel. Helper level AFSC's are provided for most career fields to identify airmen initially classified for training or duty in a ladder within the career field.

US MARINE CORPS

MILITARY OCCUPATIONAL SPECIALTY (MOS) SYSTEM:

The military occupational specialty (MOS) system presents the job structure, grade levels E-1 through E-9, that will enable the Marine Corps to carry out its assigned mission as directed. The enlisted job structure identifies Marine Corps enlisted skill attributes or requirements within specific functional areas. To achieve the most efficient and effective classification, assignment, promotion, and utilization of personnel, the Marine Corps job structure has been constructed on the concept that similar skill and knowledge requirements are grouped in functional areas, known as occupational fields. There are 39 different enlisted occupational fields.

The MOS describes a group of related duties and responsibilities that extend over one or more grades. Each MOS consists of four digits and a descriptive title. The first two digits designate the occupational field, the third normally identifies the promotional channel, and the fourth identifies the specialty within the occupational field or additional skill or knowledge requirements. These requirements are beyond the basic MOS and are normally acquired through advanced schooling or experience.

Example:

MOS	—	6012 Aircraft Mechanic, A4/TA4
60	—	Occupational Field: Aircraft Maintenance
601	—	Promotional Channel: Aircraft Mechanic: E-1 to E-7
6012	—	Specialty: Aircraft Mechanic, A4/TA4

US COAST GUARD

ENLISTED RATING STRUCTURE

The Coast Guard enlisted rating structure consists of paths of advancement from pay grade E-1 through E-9. This structure consists of General and Service ratings and is the primary administrative tool for the classification and identification of enlisted personnel. The structure consists of three general apprenticeships within pay grades E-1 through E-3, Fireman (FN), Seaman (SN) and Airman (AN) and approximately 26 general and service ratings in pay grades E-4 through E-9.

A general rating is a broad occupational field encompassing similar duties and functions which require related patterns of aptitudes and qualification, and provides paths of advancement for career development. A general rating is identified by a two or three letter abbreviation (YN-Yeoman, MST-Marine Science Technician).

Service ratings are subdivisions of certain general ratings which, by delineating specific areas of qualification, provide for required specialization in training and utilization of personnel. At present the Coast Guard utilizes one service rating, ETN—Electronics Technician Communications. The duties of a service rating although related to the general rating, are more specialized.

ENLISTED QUALIFICATION CODING SYSTEM

The Coast Guard enlisted qualification coding system supplements the enlisted rating structure by identifying special skills and knowledge that require a more refined or specific identification than is provided by rates and ratings. Qualification codes (QC) are two digit codes normally preceded by rating abbreviation and identify personnel and billets which possess additional skills that are related to a specific general or service rating.

Example:

YN	Yeoman
YN-01	(QC): Court Reporter, Stenographic

STEPS IN SOURCE BOOK DEVELOPMENT

Utilizing the three elements defined in the previous section, USOE Career Cluster, DOT Code and Military Classification Systems, the military civilian occupational source book is organized in four steps as follows:

STEP 1: The occupational groups identified by the Department of Labor in the DOT are clustered under the fifteen US Office of Education Department of Health, Education and Welfare clusters.

STEP 2: Wherever possible, each military service enlisted job specialty is linked to an appropriate DOT occupational six-digit code. Those military jobs for which there is no civilian job counterpart are also identified.

STEP 3: Job statement and desired qualification summaries are developed under each DOT code containing a military job. Where more than one service identified a job under the same code, a composite job statement/qualification summary was created which identifies the common job tasks/qualifications required in that job.

STEP 4: Job statements developed in Step 3 by military classification personnel have been reviewed by Department of Labor (Texas Employment Commission) representatives to ensure compatibility with the Dictionary of Occupational Titles job coding system, language and sentence structure. A sample job sheet is provided on next page.

OCCUPATIONAL GROUP

AS LISTED IN DICTIONARY OF OCCUPATIONAL TITLES (DOT)

1. USOE Cluster: One of the 15 USOE Career Clusters

2. Civilian Title: Job title from the Dictionary of Occupational Titles and six digit DOT code.

3. Military Titles: (Generic Military Title)

Army:

Navy:

Air Force: Specific service job titles highly related to the civilian title (item 2) above.

Marine Corps:

Coast Guard:

4. Composite Service Job Statement: Identification of common job tasks within the military services and the civilian job.

Note: These job statements are not necessarily all inclusive. A person performing this job in the military may perform these tasks plus additional functions. An individual interested in a particular job in a service should contact the recruiter of that service for specific information.

5. Desirable Qualifications Summary:

a. Academic Background:

b. Physical: Composite desirable qualifications for the military jobs. Unless so specified, these qualifications should not be considered mandatory. The service recruiters can provide specific information and should be contacted by interested individuals.

c. Specific:

6. Related Service Jobs:

Army:

Navy:

Air Force: Jobs which service considers closely related to those listed under item 3.

Marine Corps:

Coast Guard:

JOB STATEMENTS

GENERAL:

This section of the source book contains the job statements for military service occupations, equated to the appropriate civilian occupations. The statements are arranged in numerical order by the DOT six-digit code and tabbed into ten occupational categories:

0/1 — Professional, technical and managerial occupations
2 — Clerical and sales occupations
3 — Service occupations
4/5 — Farming, fishery, forestry and related occupations/processing occupations
6 — Machine trades occupations
7 — Bench work occupations
8 — Structural work occupations
9 — Miscellaneous occupations
10 — Military unique occupations (e.g., for which there is currently no civilian counterpart)

Categories 0-9 are the same as those identified in the DOT.
Note: The composite job statements contain only those functional areas within the identified service jobs that are common to each other and also common to the civilian job with which it is identified. For this reason, the job statements are not necessarily all inclusive—that is, the specialty in a specific service may do the job tasks stated plus some additional functions and by the same token a composite job for the services may be listed under more than one DOT occupational code.

TAB 0/1

PROFESSIONAL, TECHNICAL AND MANAGERIAL OCCUPATIONS

This category includes occupations concerned with the theoretical or practical aspects of such fields of human endeavor as art, science, engineering, education, medicine, law, business relations, and administration, managerial, and technical work. Most of these occupations require substantial educational preparation.

Note: Because the source book does not presently include officer jobs, many civilian occupations in this category are not included.

ELECTRICAL ENGINEERING

1. USOE Cluster: Manufacturing

2. Civilian Title: Electronic Engineer (003.081)

3. Military Titles: (Electrical-Electronic Engineering Assistant)

Army: Electrical-Electronic Engineering Assistant (01B)

4. Composite Service Job Statement: Performs research in such areas as power generation and distribution, illumination, wire and radio communications, radar, microwave and infrared radiation. Develops plans for research on specific systems or equipment such as direction finders, tracking devices, detection and guidance systems or countermeasures. Conducts tests, such as sensitivity, selectivity, fidelity and responses to tests on high frequency equipment. Designs electrical circuits to specifications, utilizing ferroelectric, nonlinear, dielectric, phosphor, photoconductive and thermoelectric properties of materials. Applies advanced mathematics to include calculus and differential equations. Records, organizes and reports results of observations, tests and experiments. Recommends changes in equipment or components to increase effectiveness such as, power, range or mobility.

5. Desirable Qualifications Summary:

a. Academic Background: Bachelor's degree and six months experience or Master's degree in the field of Electrical or Electronic Engineering.

b. Physical: Normal color discrimination.

c. Specific: None

6. Related Service Jobs:

Army: Radio Propagation Specialist (26P)

CIVIL ENGINEERING

1. USOE Cluster: Construction

2. Civilian Title: Civil Engineer (005.081)

3. Military Titles: (Civil Engineer)

Army: Civil Engineering Assistant (01D)

4. Composite Service Job Statement: Performs professional level office and field duties in the field of civil engineering. Originates, evaluates and inspects projects in construction, highway, structural, hydraulics, and sanitary engineering. Prepares and interprets blueprints and engineering diagrams and makes inspections before and during construction. Applies advanced mathematics, including solid geometry, trigonometry, and calculus. Conducts investigations to determine feasibility of proposed projects. Outlines information to be obtained and schedules collection of topographical and other pertinent data applicable to project under investigation. Analyzes results of investigation and prepares report recommending approval or disapproval of project. Reviews plans and specifications submitted on engineering projects to determine completeness of details, practicality of design, and if project can proceed logically and on schedule. Prepares estimates of personnel, materials, and equipment required. Originates designs for project or makes modifications in original designs to cope with problems encountered during investigations. Performs preconstruction layout to establish proper locations, grades, elevations, and bearings for placement of materials and equipment. Sched-

ules flow of material and equipment to project. Inspects construction operations during course of project. Recommends changes based on requirements of specifications or for substitutions of material and equipment. Prepares detailed progress reports of results of inspections, changes in original specifications, and unusual conditions, such as changes in status of funds and deviations from original cost estimates or failures in delivery of materials and equipment. Prepares detailed report on completed projects, including total cost, date the project will be available for use or occupancy, and other pertinent information.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in drafting, mathematics, blueprint reading and shop. Bachelor's Degree and six months experience, or Master's Degree in Civil Engineering.
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs:
   Air Force: Programs and Work Control Specialist (55530)

CIVIL ENGINEERING

1. USOE Cluster: Construction
2. Civilian Title: Construction Engineer (005.081)
3. Military Titles: (Construction Engineer)
   Army: Civil Engineering Assistant (01D)

4. Composite Service Job Statement: Plans, evaluates and inspects the construction of highways, structures, hydraulic and sanitary engineering projects. Prepares and interprets blueprints and engineering diagrams and makes periodic inspections prior to and during construction. Originates designs for projects or makes modifications in original design to cope with problems encountered during inspections. Estimates cost of material, labor and equipment, appling knowledge of advanced mathematics, including solid geometry, trigonometry, and calculus. Prepares detailed progress reports and end of project reports.

5. Desirable Qualifications Summary:
   a. Academic Background: Bachelor's degree and six months experience or Master's degree in Civil Engineering.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Engineering Aid (EA)
   Air Force: Pavement and Construction Equipment Superintendent (55191); Structural Superintendent (55295)

CIVIL ENGINEERING

1. USOE Cluster: Construction
2. Civilian Title: Drafter, Civil (005.281)

3. Military Titles: (Construction Drafter)
   Army: Construction Draftsman (81B)
   Air Force: Site Development Specialist (55350)
   Marine Corps: Construction Draftsman (1411); Surveying and Drafting Chief (1422)
   Coast Guard: Draftsman (QC: DM)

4. Composite Service Job Statement: Drafts working plans and detailed drawings for structural and earthwork construction projects, working from notes or sketches. Draws pencil or inked plans to scale for construction projects such as roads, bridges, buildings, harbor facilities, field fortifications, landing strips and helicopter pads. Draws electrical wiring, plumbing and sewage diagrams for use in the installation of utilities facilities. Computes lists of material from detail drawings. Edits and reproduces construction drawings.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mechanical drawing, drafting, algebra, trigonometry, geometry.
   b. Physical: Normal color discrimination (Army).
   c. Specific: Excellent learning ability. Aptitude for accurate, detailed work.

6. Related Service Jobs:
   Navy: Engineering Aid (EA); Illustrator Draftsman (DM)
   Air Force: Graphics Specialist (23151)
   Marine Corps: Map Compiler (1431)

MECHANICAL ENGINEERING

1. USOE Cluster: Manufacturing

2. Civilian Title: Mechanical Engineer (007.081)

3. Military Titles: (Mechanical Engineering Assistant)
   Army: Mechanical Engineering Assistant (01C)

4. Composite Service Job Statement: Performs laboratory and field research in mechanical and metallurgical engineering. Interprets, adapts and applies engineering principles and practices, complex guidelines and precedents in devising research and development working plans. Plans and designs tools, engines, machines and other mechanically functioning equipment. Prepares specifications governing shop fabrication, testing assembly and delivery of mechanical equipment, applying knowledge of advanced mathematics such as analytical geometry, differential and integral calculus and differential equations. Evaluates performance test data and field reports. Prepares summary reports and staff studies on research projects.

5. Desirable Qualifications Summary:
   a. Academic Background: Bachelor's degree and six months experience or Master's degree in Mechanical, Automotive, Aeronautical, Ordnance or Metallurgical Engineering.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs: None

CHEMICAL ENGINEERING

1. USOE Cluster:	Manufacturing
2. Civilian Title:	Chemical Engineer (008.081)
3. Military Titles:	(Chemical Engineering Assistant)
Army:	Chemical Engineering Assistant (01G)

4. Composite Service Job Statement: Performs laboratory and field research in chemical, ceramic or petroleum engineering. Performs processes such as, fluid flow, heat flow, evaporation, diffusion, humidity, air conditioning, drying, distillation, crushing, grinding, extraction or common unit processes. Calculates data required for efficient, logical and safe operation of plants, applying generally accepted theories, principles, laws, hypotheses, correlations and empirical relationships applicable to specific problems. Records and summarizes data on operations, including flow diagram of equipment and materials, charts of operating conditions showing relationship of variables or interpret effects of minor changes in formulas or processes. Prepares reports describing test procedures and results and recommending actual materials and machinery used.

5. Desirable Qualifications Summary:

a. Academic Background:	Bachelor's degree and six months experience or Master's degree in Chemical, Ceramic, or Petroleum Production Engineering.
b. Physical:	Normal color discrimination.
c. Specific:	None
6. Related Service Jobs:	None

METALLURGY AND METALLURGICAL ENGINEERING

1. USOE Cluster:	Manufacturing
2. Civilian Title:	Metallurgist, Assistant (011.281)
3. Military Titles:	(Metal Tester)
Navy:	Nondestructive Testing Metal Specialist (HT-4931 thru 4935); Aircraft Structural Nondestruct Inspector (AM-7225)
Air Force:	Non-destructive Inspection Specialist (53650)
Marine Corps:	Aircraft Non-destructive Testing Supervisor (6044)

4. Composite Service Job Statement: Performs any one or a combination of the following duties: Examines and tests metals to determine their physical properties and to detect the presence of impurities, fractures and other defects. Performs nondestructive testing using portable and fixed magnetic particle testers, flourescent and visible penetrant test equipment, ultrasonic pulse echo flow detectors, eddy current test equipment, ultrasonic leak detectors, and X-radiographic equipment. Determines strength, hardness, elasticity and toughness of metal products. Prepares reports of findings and submits to supervisor.

5. Desirable Qualifications Summary:

a. Academic Background:	Courses in metal shop, chemistry, physics and practical mathematics.
b. Physical:	None.
c. Specific:	Self reliance and ingenuity.

6. Related Service Jobs:
Army: Mechanical Engineering Assistant (01C)
Navy: Hull Technician (HT); Aviation Structural Mechanic (Structures) (AMS)
Coast Guard: Damage Controlman (DC); Aviation Structural Mechanic (AM)

INDUSTRIAL ENGINEERING

1. USOE Cluster: Business and Office
2. Civilian Title: Systems Analyst, Business-Electronics-Data Processing (012.168)
3. Military Titles: (Systems Analyst)
Army: ADP Systems Analyst (74G)
Navy: System Analyst (DP-2751 and 2752)
Air Force: Computer Systems Analysis and Design Specialist (51132); Supply Systems Specialist (64850); Personnel Systems Management Specialist (73233)
Marine Corps: Data Systems Programming Chief (4095)

4. Composite Service Job Statement: Analyzes operating systems and procedures such as inventory control, payroll or personnel accounting, to determine feasibility for conversion to or update of electronic data processing systems. Conducts systems studies of functional areas to develop new data processing systems or improve existing systems. Analyzes current systems and procedures to determine sources of basic data, methods of compiling and transmitting data, adequacy of data received and steps involved in processing and consolidating data. Conducts economic analysis of costs and benefits and prepares documentation of proposals and specifications. Confers with organizational personnel to determine data elements, input and output requirements and data to be processed. Develops systems flow charts or diagrams for programming.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in business management, data processing, typing, bookkeeping, accounting and business machine operation.
b. Physical: None.
c. Specific: None.

6. Related Service Jobs:
Navy: Data Processing Technician (DP)
Air Force: Programming Specialist (51151)

INDUSTRIAL ENGINEERING

1. USOE Cluster: Business and Office
2. Civilian Title: Efficiency Engineer (012.188)
3 Military Titles: (Manpower Analyst)
Navy: Job Analyst (PN-2614); Manpower Survey Analyst (PN-2618)
Air Force: Management Engineer Specialist (73331)

4. Composite Service Job Statement: Analyzes work methods, procedures and job characteristics and conducts manpower surveys within military activities to determine the most efficient utilization of manpower and

material. Reviews and analyzes work standards, workload and performance data to determine optimum manpower requirements. Interviews military and civilian personnel to acquire data. Develops rate and skill requirements for manning documents and organizational charts. Performs management services including development, test and implementation of improved methods. May supervise manpower management activities.

5. Desirable Qualifications Summary:
    a. Academic Background: High school or college business administration courses. High school course in algebra useful but not mandatory (except Air Force). Course in typing.
    b. Physical: None.
    c. Specific: High degree of learning ability. Ability to work well with people. Must be High School graduate or GED equivalency with High School course in algebra (Air Force).

6. Related Service Jobs:
    Navy: Work Study Analyst (9514)

INDUSTRIAL ENGINEERING

1. USOE Cluster: Business and Office

2. Civilian Title: Industrial Engineering Technician (012.288)

3. Military Titles: Industrial Engineering Technician
    Navy: Work Study Analyst (9514)
    Air Force: Manpower Management Specialist (73391)

4. Composite Service Job Statement: Studies and records time, motion and methods involved in performance of maintenance, clerical and other worker operations to improve efficiency and establish standards. Prepares charts, graphs and diagrams to illustrate workflow, floor layouts, material handling and machine utilization. Observes workers to determine time involved and fatigue rate using stop watch, camera and similar equipment. Recommends revisions of layout, workflow or materials handling procedures to increase output or improve standards.

5. Desirable Qualifications Summary:
    a. Academic Background: High School graduate (Air Force). Courses in mathematics up to and including algebra and courses in principles of business management.
    b. Physical: None
    c. Specific: High degree of clerical aptitude.

6. Related Service Jobs:
    Navy: Manpower Survey Analyst (PN-2618)

DRAFTER

1. USOE Cluster: Construction

2. Civilian Title: Drafter, Apprentice (017.281)

3. Military Titles: (Apprentice Drafter)
    Army: General Draftsman (81A)
    Navy: Illustrator Draftsman (DM)
    Coast Guard: Draftsman (QC: DM)

4. Composite Service Job Statement: Draws a variety of general drafting details such as diagrams, graphs and charts, and assists personnel engaged in cartographic, model making and related art and drafting activities. Copies or traces drawings, charts, posters and other art or drafting work utilizing pen, ink, pencil or crayon and such equipment as mimeoscope, T-squares, protractors, triangles, dividers and rules. Letters material by freehand or mechanical means with letter templates. Assists map compilers and model makers in the completion of finished products. Compiles and enters information such as dimensions, specifications and legends on appropriate section of drawings.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, plane geometry and mechanical drawing.
   b. Physical: Normal color discrimination.
   c. Specific: Aptitude for close, accurate work.

6. Related Service Jobs:
   Army: Construction Draftsman (81B); Cartographic Draftsman (81C)
   Navy: Engineering Aid (EA)

DRAFTER

1. USOE Cluster: Construction

2. Civilian Title: Drafter, Topographical (017.281)

3. Military Titles: (Topographical Drafter)
   Army: Cartographic Draftsman (81C)
   Marine Corps: Map Compiler (1431); Cartographer (1432)

4. Composite Service Job Statement: Constructs topographic/hydrographic maps, charts and mosaics from field survey data or aerial photographs, using drafting instruments. Applies knowledge of terrain representations and approved conventional map signs and symbols to plot planimetric and topographic details. Corrects and revises existing maps. Prepares grid drawings for mosaics and topographic maps.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mechanical drawing, drafting, and plane geometry.
   b. Physical: Normal color discrimination.
   c. Specific: Stereoscopic vision required (Army).

6. Related Service Jobs:
   Navy: Engineering Aid (EA); Illustrator Draftsman (DM)
   Air Force: Photo Cartographic Specialist (22150)

SURVEYORS

1. USOE Cluster: Construction

2. Civilian Title: Geodetic Computer (018.188)

3. Military Titles: (Geodetic Computer)
   Army: Topographic Computer (82E)
   Air Force: Geodetic Computations Specialist (22251)

4. Composite Service Job Statement: Calculates latitude, longitude, angles, areas and other information for map making, missile or artillery guidance data from ground, aerial or satellite survey data using reference tables and calculating machines.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra and plane geometry.
   b. Physical: None
   c. Specific: None

6. Related Service Jobs:
   Army: Topographic Surveyor (82D)
   Navy: Intelligence Specialist (IS); Engineering Aid (EA)
   Air Force: Imagery Interpreter Specialist (20650); Photogrammetric Cartographic Specialist (22150); Geodetic Surveyor (22250)
   Marine Corps: Surveyor (1421); Field Artillery Fire Control Man (0844)

SURVEYORS

1. USOE Cluster: Construction

2. Civilian Title: Surveyor (018.188)

3. Military Titles: (Surveyor)
   Army: Artillery Surveyor (82C); Construction Surveyor (82B); Topographic Surveyor (82D)
   Navy: Engineering Aid (EA)
   Air Force: Site Development Specialist (55350); Geodetic Surveyor (22250)
   Marine Corps: Surveyor (1421), Surveying and Drafting Chief (1422); Mapping Chief (1453); Field Artillery Fire Control Man (0844)
   Coast Guard: Surveyor (QC: CD-1)

4. Composite Service Job Statement: Conducts surveys to establish relative positions of points on earth's surface to provide control data used in military operations such as construction projects, map making or artillery, missile and aircraft control operations. Keeps field notes and records. Makes sketches and performs calculations to convert survey data to usable form. Makes solar and stellar observations and computes geographic and grid coordinates and azimuths. Cleans, lubricates and adjusts surveying instruments and equipment such as transits, levels and compasses. Supervise surveying party. May conduct hydrographic surveys.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry and logarithms. Course in trigonometry required (Navy).
   b. Physical: Normal color discrimination required (Army).
   c. Specific: Highway construction experience. Aptitude for accurate, detailed work.

6. Related Service Jobs:
   Coast Guard: Quartermaster (QM)

SURVEYORS

1. USOE Cluster: Public Service
2. Civilian Title: Surveyor, Geodetic (018.188)
3. Military Titles: (Geodetic Surveyor)
   Army: Topographic Surveyor (82D)
   Air Force: Geodetic Surveyor (22250)
   Coast Guard: Quartermaster (QM)

4. Composite Service Job Statement: Conducts surveys to determine geodetic and astronomic position, azimuth and elevation. Determines latitude and longitude by performing triangulation, traversing and astronomic observation. Measures base line by use of standardized tape or electronic distance measuring equipment. Uses ephemerides to select stars for astronomic observation. Operates precise theodolites, levels, collimator, gravity meter and related geodetic survey equipment, to gather data for construction of maps, charts and other purposes.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry and trigonometry.
   b. Physical: None
   c. Specific: None
6. Related Service Jobs:
   Air Force: Geodetic Computation Specialist (22251)

SURVEYORS

1. USOE Cluster: Construction
2. Civilian Title: Photogrammetrist (018.281)
3. Military Titles: (Cartographer)
   Army: Cartographic Draftsman (81C)
   Air Force: Photogrammetric Cartographic Specialist (22150)
   Marine Corps: Map Compiler (1431); Cartographer (1432)

4. Composite Service Job Statement: Analyzes source data and prepares mosaics, contour maps, overlays and related cartographic materials using photogrammetric techniques. Transcribes features from photographs using direct tracing methods, planographs and scale equalizing instruments. Computes and constructs geographic projections and pertinent grids using accepted tables, formulae and computing devices.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, plane geometry and trigonometry.
   b. Physical: Normal stereoscopic acuity and color discrimination required.
   c. Specific: May be required to be eligible for appropriate security clearance.
6. Related Service Jobs:
   Army: Image Interpreter (96D)
   Navy: Intelligence Specialist (IS)
   Air Force: Imagery Interpreter Specialist (20650)
   Marine Corps: Imagery Interpreter (0241)
   Coast Guard: Photo-Journalists (PA)

SURVEYORS

1. USOE Cluster: Construction

2. Civilian Title: Survey Helper, Rod (018.587)

3. Military Titles: (Rodman)
   Army: Rodman and Tape Man (82A)
   Navy: Engineering Aid (EA)
   Marine Corps: Field Artillery Fire Control Man (0844); Surveyor (1421)
   Coast Guard: Surveyor (QC: C-1)

4. Composite Service Job Statement: Carries, aligns and holds stadia and level rods following hand or verbal instructions from surveyors. Locates markers for use as reference point. Measures linear distances with tapes. Performs other duties as directed by surveyor.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry and trigonometry.
   b. Physical: None
   c. Specific: Highway construction experience.

6. Related Service Jobs:
   Air Force: Site Development Specialist (55350)

MATHEMATICS

1. USOE Cluster: Business and Office

2. Civilian Title: Statistician, Mathematical (020.088)

3. Military Titles: (Mathematical Statistician)
   Army: Mathematics Statistics Assistant (01E)

4. Composite Service Job Statement: Develops and adapts mathematical or statistical theory and methodology for use in mathematical or statistical investigations. Investigates and evaluates applicability, efficiency and accuracy of theory and methods used in mathematical or statistical programs and studies. Applies mathematics such as differential and integral calculus, theory of differential equations and complex numbers utilizing slide rules, desk calculators, mathematical tables and special purpose computing devices and aids to arrive at conclusions.

5. Desirable Qualifications Summary:
   a. Academic Background: Bachelor's degree and six months experience or Master's degree with specialization in Mathematics.
   b. Physical: None
   c. Specific: None

6. Related Service Jobs: None

MATHEMATICS

1. USOE Cluster: Business and Office

2. Civilian Title: Programer, Chief, Business (020.168)

3. Military Titles: (Programing Chief)
   Army: Data Processing NCO (74Z)
   Navy: Data Processing Technician (DP)
   Air Force: Computer Systems Superintendent (51192)
   Marine Corps: Data Systems Programing Chief (4095)

4. Composite Service Job Statement: Supervises programers engaged in the analysis of data processing problems and the development and execution of programing procedures and plans. Analyzes data processing problems and develops systems and programs. Advises junior programers in developing the more difficult programing applications. Assigns, coordinates and reviews work of programing personnel. Coordinates with managerial personnel to determine system requirements and designs systems. Instructs subordinates in programing and program coding. May supervise the administrative functions of a data processing installation.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, bookkeeping, accounting and business machine operation.
   b. Physical: None
   c. Specific: High degree of clerical and mechanical aptitude.

6. Related Service Jobs:
   Army: Computer Programer (74F)
   Navy: Data Systems Technician (DS)
   Air Force: Personnel Systems Management Technician (73273); Supply Systems Supervisor (64870)
   Marine Corps: Programer (System or Language) (4053, 4057, 4058, 4059, 4063, 4065, 4067); Systems Programer IBM S/360 (4069)
   Coast Guard: Programer (QC: G6)

MATHEMATICS

1. USOE Cluster: Business and Office

2. Civilian Title: Programer, Business (020.188)

3. Military Titles: (Computer Programer)
   Army: Computer Programer (74F)
   Navy: Digital Computer Programer (9507); Computer/System Programer (DP-2741 thru 2746); Computer Programer (AG-7426)
   Air Force: Programing Specialist (51151)
   Marine Corps: Programer (various systems) (4044, 4053, 4057, 4058, 4059, 4063, 4065, 4067, 4069, 4095)
   Coast Guard: Computer Programer (QC: C-6)

4. Composite Service Job Statement: Prepares, codes, tests, documents and analyzes computer programs. Converts generalized plans or diagrams into detailed flow charts. Converts flow diagrams to symbolic

computer or English-like language. Develops debugging routines, modifies and simplifies programs to minimize redundancy. Prepares program documentation.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra and geometry.
   b. Physical: None.
   c. Specific: Clerical aptitude.

6. Related Service Jobs:
   Army: ADP Systems Analyst (74G); Data Processing NCO (74Z)
   Navy: Data Processing Technician (DP); System Analyst (DP-2751-2752)
   Air Force: Computer Systems Analysis and Design Specialist (51132)

CHEMISTRY

1. USOE Cluster: Manufacturing

2. Civilian Title: Chemical-Laboratory Technician (022.281)

3. Military Titles: (Chemical-Laboratory Specialist)
   Army: Chemical Laboratory Specialist (92D)
   Navy: Clinical Chemistry Technician (HM-8414)

4. Composite Service Job Statement: Conducts chemical and physical tests in chemical laboratory and makes qualitative and quantitive analysis of materials for such purposes as development of new products, materials and processing methods and maintenance of health and safety standards. Sets up laboratory equipment in preparation for chemical and physical tests. Performs laboratory analysis of chemicals and other items utilizing established formulas and procedures. Conducts physical tests to determine durability, strength and resistance to effects of climate or chemicals on items such as, clothing, shoes and equipment. Performs toxicological studies of various types of toxic gases and other chemicals, drugs and biologicals to determine irritability and permeability. Prepares reports giving procedures followed, results obtained, conclusions reached and makes recommendations regarding samples tested. Maintains laboratory files.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry, hygiene, biology and physiology.
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)

PHYSICS

1. USOE Cluster: Manufacturing

2. Civilian Title: Physicist (023.081)

3. Military Titles: (Physical Sciences Assistant)
   Army: Physical Sciences Assistant (01F)

4. Composite Service Job Statement: Performs laboratory and research studies in the field of physical sciences such as physics, meteorology, geology or chemistry. Performs fundamental research involving theoretical analysis, exploration or experimentation of physical phenomena or composition, molecular structure and properties of substances. Performs chemical analysis of samples, applying gravimetric, volumetric, spectrochemical and microanalytic techniques. Investigates application of relations between space, time, matter and energy to mechanics, sound optics, heat, electricity, magnetism, radiation and atomic and nuclear phenomena. Makes and records observations and collects, organizes and presents facts. Prepares critical evaluations of experimental or test data, including interpretation of inconsistent or unexpected results, overall interpretation of data, recommendations on suitability of samples or developed items for intended use or for selection of several new or modified laboratory procedures.

5. Desirable Qualifications Summary:
   a. Academic Background: Bachelor's degree and six months experience, or Master's degree with specialization in Physics, Meteorology, Geology or Chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs: None

METEOROLOGY

1. USOE Cluster: Public Services
2. Civilian Title: Meteorologist (025.088)
3. Military Titles: (Weather Forecaster)
   Army: Meteorological Observer (93E)
   Navy: Aerographer's Mate (AG); Analyst-Forecaster (AG-7412)
   Air Force: Weather Forecaster Specialist (25330)
   Marine Corps: Weather Forecaster (6842)
   Coast Guard: Marine Science Technician (MST-04)

4. Composite Service Job Statement: Studies and interprets atmospheric conditions and related meteorological information to forecast immediate or long range changes in weather. Analyzes and interprets synoptic charts, maps, prognostic charts and meteorological data. Forecasts weather conditions and issues warnings of severe or hazardous conditions. Prepares and presents briefings on environmental conditions and their effect on operations.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, algebra, typing, physical sciences, trigonometry and physiography.
   b. Physical: Normal color discrimination mandatory (Army, Marine Corps)
   c. Specific: Training or experience in meteorology, astronomy or the physical sciences.

6. Related Service Jobs:
   Navy: Rawin/Radiosonde Operator (AG-7414); Ocean Systems Technician (OT)
   Air Force: Weather Observer (25251)
   Marine Corps: Weather Observer (6821); Weather Observer/Rawinsonde Operator (6831)

METEOROLOGY

1. USOE Cluster: Public Service

2. Civilian Title: Radiosonde Operator (025.288)

3. Military Titles: (Radiosonde Operator)
   Army: Meteorological Observer (93E); Ballistic Meteorology Crewman (93F)
   Navy: Rawin/Radiosonde Operator (AG-7414)
   Air Force: Weather Observer (25251)
   Marine Corps: Weather Observer/Rawinsonde Operator (6831); Artillery Meteorological Man (0847)
   Coast Guard: Marine Science Technician (MST-05)

4. Composite Service Job Statement: Operates rawin/radiosonde set equipment to make upper air soundings. Attaches radiosonde transmitter to gas-filled balloon and sends aloft. Operates ground receivers to plot transmitted signals on moving charts. Uses data from recorders to prepare adiabatic charts. Computes winds aloft and extracts and encodes observed data for transmission. Calibrates and performs operational maintenance on rawin/radiosonde set equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, trigonometry and physics.
   b. Physical: Normal color discrimination required (Marine Corps).
   c. Specific: Must be eligible to receive appropriate security clearance (Marine Corps). Training or experience in meteorology or astronomy.

6. Related Service Jobs:
   Navy: Aerographer's Mate (AG)
   Air Force: Weather Forecaster Specialist (25330)
   Coast Guard: Quartermaster (QM)

METEOROLOGY

1. USOE Cluster: Public Service

2. Civilian Title: Weather Observer (025.288)

3. Military Titles: (Weather Observer)
   Army: Meteorological Observer (93E); Ballistic Meteorology Crewman (93F)
   Navy: Aerographer's Mate (AG)
   Air Force: Weather Observer (25251)
   Marine Corps: Weather Observer (6821); Weather Observer/Rawinsonde Operator (6831); Artillery Meteorological Man (0847)
   Coast Guard: Marine Science Technician (MST-02)

4. Composite Service Job Statement: Observes, collects, and records data regarding visual and instrumental observations of weather or sea conditions for use in forecasting. Decodes and plots weather data on maps, charts, and diagrams. Calculates wind velocity using pilot balloon soundings. Encodes and transmits weather information. Operates facsimile, teletype, meteorological and voice communications equipment necessary to acquire, interpret, transmit and receive weather information. Prepares and updates weather and climatological records.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in physics, algebra, typing, physical sciences and trigonometry.
    b. Physical: Normal color discrimination mandatory. (Army, Marine Corps).
    c. Specific: Must be eligible to receive appropriate security clearance (Marine Corps). Experience or training in meteorology, astronomy or the physical sciences.

6. Related Service Jobs:
Navy: Analyst-Forecaster (AG-7412)
Air Force: Weather Forecaster Specialist (25330)
Marine Corps: Weather Forecaster (6842)
Coast Guard: Quartermaster (QM)

MATHEMATICS AND PHYSICAL SCIENCES

1. USOE Cluster: Construction

2. Civilian Title: Soils Tester (029.181)

3. Military Titles: (Soil Analyst)
Army: Soils Analyst (51G)
Navy: Quality Controlman (EA-5502)
Air Force: Pavement Maintenance Specialist (55150); Site Development Specialist (55350)

4. Composite Service Job Statement: Performs laboratory tests on soils, bituminous materials, concrete, aggregate and other base materials to determine engineering characteristics. Classifies soils according to standard types. Computes test results using metric system and simple algebraic equations. Writes soils and material reports of construction sites and routes with regard to types of soils, soil profiles, drainage requirements and usable construction materials.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in geology, physics, algebra, chemistry and general science. Course in trigonometry required (Navy).
    b. Physical: Normal color discrimination.
    c. Specific: Excellent learning ability. Aptitude for accurate, detailed work.

6. Related Service Jobs:
Navy: Engineering Aid (EA)

MATHEMATICS AND PHYSICAL SCIENCES

1. USOE Cluster: Public Service

2. Civilian Title: Aerial-Photograph Interpreter (029.188)

3. Military Titles: (Imagery Intelligence Interpreter)
Army: Image Interpreter (96D)
Navy: Intelligence Specialist (IS)
Air Force: Imagery Interpretation Specialist (20650)
Marine Corps: Imagery Interpreter (0241); Imagery Interpretation Chief (0293)

4. Composite Service Job Statement: Identifies and extracts intelligence data from aerial, surface and radarscope photographs to determine, develop and disseminate items of intelligence. Interprets, analyzes and evaluates imagery to identify physical features and man-made objects. Prepares graphics including annotated photographs, mosaics, maps, charts, graphs and overlays to display detailed intelligence findings. Prepares oral and written reports and presents intelligence information revealed by interpretation studies. Establishes and maintains files of image interpretation reports, prints and records.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry and photography.
   b. Physical: Normal color discrimination and stereoscopic vision.
   c. Specific: Be eligible for appropriate security clearance. Aptitude for accurate, detailed work.

6. Related Service Jobs:
   Air Force: Intelligence Operations Specialist (20450); Photogrammetric Cartographic Specialist (22150); Geodetic Computation Specialist (22251)
   Marine Corps: Map Compiler (1431); Cartographer (1432)

MATHEMATICS AND PHYSICAL SCIENCES

1. USOE Cluster: Manufacturing
2. Civilian Title: Tester (029.281)
3. Military Titles: (Petroleum Products Tester)
   Army: Petroleum Laboratory Specialist (92C)
   Navy: Petroleum Specialist (9561); Spectrometric Oil Analysis Program Evaluator (AD-6401)
   Marine Corps: Spectrometric Oil Analysis Technician (6034)

4. Composite Service Job Statement: Performs any one or a combination of the following: Tests and analyzes samples of petroleum products to detect and measure contaminants. Performs petroleum specification tests such as specific gravity, tetraethyl lead content, flash point and oxidation stability. May operate fuels research test engines. Prepares laboratory reagents and glassware and calibrates and standardizes laboratory instruments. Analyzes and evaluates oil or other fluids using spectrometric oil analysis techniques. Maintains records of samples processed to establish normal levels for type equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, chemistry, geometry and automobile or aircraft engine machine shops.
   b. Physical: Normal color discrimination.
   c. Specific: High degree of mechanical aptitude. Must be qualified Aircraft/Helicopter Power Plants Mechanic (Marine Corps)

6. Related Service Jobs:
   Navy: Aviation Boatswain's Mate (Fuels—ABF); Aviation Machinist's Mate (AD); Boiler Technician (BT)

BIOLOGICAL SCIENCES

1. USOE Cluster: Health

2. Civilian Title: Biologist (041.081)

3. Military Titles: (Biological Sciences Assistant)
Army: Biological Sciences Assistant (01H)

4. Composite Service Job Statement: Performs laboratory and research duties in the field of biological sciences to include bacteriology, biochemistry, entomology, or pharmacology. Performs culture work on animal diseases, including transfer of bacteria, and preparation of cultures of organisms in blood, tissue, milk, colostrum and uterine material. Innoculates and performs autopsies on laboratory animals used in preparation of cultures. Makes bio-assays, according to approved laboratory methods to determine toxicity of drugs and various other substances such as, food, dyes, drinks, germicides, insecticides, ointments and toxic gases. Plans experiments, selects laboratory animals to be used, calculates dosages, administers dosage by oral, intravenous, intraperitoneal, subcutaneous, intracutaneous and intramuscular routes. Observes toxic effects produced in animals. Prepares and maintains accurate records of all experiments conducted and results obtained.

5. Desirable Qualifications Summary:
   a. Academic Background: Bachelor's degree and one year's experience, or Master's degree with specialization in Biology, Bacteriology, Zoology, Parasitology, Botany, Pharmacology or Entomology.
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs: None

PSYCHOLOGY

1. USOE Cluster: Health

2. Civilian Title: Psychometrist (045.088)

3. Military Titles: (Personnel Psychology Specialist)
Army: Personnel Psychology Specialist (01K)

4. Composite Service Job Statement: Administers and processes psychological tests and conducts psychological research. Administers, scores and interprets intelligence, aptitude, achievement and other psychological tests. Collects data for specific research projects through sampling. Assists in the design and construction of research instruments including group and individual tests, rating forms, questionaires and other tools. Interprets test results in light of standard norms and limitations of test in terms of validity and reliability.

5. Desirable Qualifications Summary:
   a. Academic Background: Bachelor's degree or higher in General, Educational, Experimental, Industrial, Personnel or Social Psychology.
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs:
Air Force: Psychiatric Clinic Specialist (91450)

PSYCHOLOGY

1. USOE Cluster: Public Services

2. Civilian Title: Counselor II (045.108)

3. Military Titles: (Counselor)
   Army: Personnel Management Specialist (75C)
   Navy: Personnelman (PN); Classification Interviewer (PN-2612); Correctional Counselor (PN-2616)
   Air Force: Education Specialist (75150)
   Marine Corps: Education Assistant (8231)

4. Composite Service Job Statement: Performs any one or a combination of the following: Counsels individuals and provides educational and vocational guidance services to assist personnel in enhancing their careers. Explains current opportunities and benefits to individuals or groups. Provides guidance services for personnel seeking higher educational levels. Prepares publicity material for publication in support of career planning programs. Organizes and coordinates participation in educational opportunities such as group study classes, correspondence courses, and local high school or college courses. Plans and directs prisoner correctional treatment programs at a military correctional center. Administers aptitude, educational, or vocational tests. Supervises and coordinates interviewing and counseling efforts. Prepares and maintains records and files necessary to support the counseling effort.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in psychology, effective speech, writing, and typing.
   b. Physical: Ability to speak clearly and distinctly.
   c. Specific: Pleasant disposition. Desire to help those in need.

6. Related Service Jobs:
   Navy: Navy Counselor (NC)
   Air Force: Training Specialist (75132); Personnel Specialist (73250); Career Advisory Specialist (73234)
   Marine Corps: Correctional Counselor (5832)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Blood-Bank Technologist (078.281)

3. Military Titles: (Blood-Bank Technologist)
   Army: Medical Laboratory Specialist (92B)
   Navy: Medical Laboratory Technician, Advanced (HM-8506)
   Air Force: Medical Laboratory Specialist (90450)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Performs laboratory procedures and assists in all phases of blood bank operations. Analyzes and types blood. Draws and prepares blood for preservation or transfusion. Crossmatches blood of donor and recipient to insure compatibility.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry, biology, physiology, and first aid.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in first aid. Desire to help those in need.
6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health
2. Civilian Title: Cytotechnologist (078.281)
3. Military Titles: (Cytotechnologist)
   Army: Medical Laboratory Specialist (92B)
   Navy: Cytotechnologist Technician (HM-8505)
   Air Force: Cytotechnology Specialist (90432)

4. Composite Service Job Statement: Performs cytological analysis of specimens which consist of body fluids and exfoliated tissues from body cavities and surfaces. Assists the Pathologist in applying cytodiagnostic techniques for patients' care. Stains cytological preparations for determination of hormone levels, chromatin bodies and intra-cellular inclusions. Examines body fluids to determine appropriate cytopathology through the preparation of smear, cell blocks and filter techniques. Supervises cytotechnology activities.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physiology, chemistry and biology.
   b. Physical: Must have normal color discrimination.
   c. Specific: Desire to help those in need.
6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)
   Air Force: Medical Laboratory Specialist (90450)
   Coast Guard: Hospital Corpsman (QC: 03)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health
2. Civilian Title: Medical Technologist (078.281)
3. Military Titles: (Medical Technologist)
   Army: Medical Laboratory Specialist (92B)
   Navy: Medical Technologist (HM-8507)
   Air Force: Medical Laboratory Specialist (90450)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Performs chemical, microscopic and bacteriologic tests to provide data for use in diagnosis and treatment of diseases. Performs blood, urine, tissue, bacteria, body fluids, and other tests required to make quantitative and qualitative chemical analyses. Cultivates, isolates, and identifies bacteria, parasites and micro-organisms. Cuts, stains, and mounts tissue sections for study by pathologists.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in hygiene, biology, chemistry and physiology.
    b. Physical: Normal color discrimination.
    c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
    Navy: Hospital Corpsman (HM); Histology Technicians (HM-8502-8503); Laboratory Technician (HM-8501); Cytology Technician (HM-8504, 8505)
    Air Force: Operating Room Specialist (90252)
    Coast Guard: Hospital Corpsman (HM-03)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Audiometrist (078.368)

3. Military Titles: (Audiometrist)
    Army: Eye, Ear, Nose, and Throat Specialist (91U)
    Navy: Audiometric Technician (HM-8591); Ear, Eye, Nose and Throat Technician (HM-8484)
    Air Force: Otolaryngology Surgical Specialist (91231)
    Coast Guard: Hospital Corpsman (HM-01)

4. Composite Service Job Statement: Operates manual, self-recording, or group-type audiometric equipment to produce audiograms. Instructs subjects on procedures to be followed during examinations. Adjusts audiometer to control sound emitted and records subject's responses. Refers individuals to Medical Officers for interpretation of test results. Classifies audiograms under supervision of Medical Officer.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in biology, hygiene, and physiology.
    b. Physical: Normal color discrimination.
    c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
    Navy: Hospital Corpsman (HM)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Dental Hygienist (078.368)

3. Military Titles: (Dental Hygienist)
    Army: Dental Specialist (91E)
    Navy: Dental Technician (DT)
    Air Force: Preventive Dentistry Specialist (98131)
    Coast Guard: Dental Technician (DT-03)

4. Composite Service Job Statement: Performs dental prophylactic treatments and instructs groups and individuals in oral hygiene. Cleans and polishes teeth using dental hand instruments, prophylaxis paste and mechanical instruments. Performs dental examinations and charts results. Exposes, processes, and mounts radiographs. Maintains periodental equipment to include cleaning, sharpening and sterilizing. Applies anticariogenic agents and other medications to prevent dental caries and to promote healing.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in hygiene, biology, chemistry and physiology.
   b. Physical: Normal color discrimination mandatory (Coast Guard, Army)
   c. Specific: Interest and aptitude for working in dentistry.

6. Related Service Jobs:
   Air Force: Dental Specialist (98150)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Electrocardiograph Technician (078.368)

3. Military Titles: (Electrocardiograph Technician)
   Army: Cardiac Laboratory Specialist (91N)
   Navy: Electrocardiograph Technician (HM-8453)
   Air Force: Cardiopulmonary Laboratory Specialist (91630)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Conducts and records electrocardiograms, vectorcardiograms and phonocardiograms to obtain diagnostic data on condition of heart. Attaches electrodes, conducts tests and records test data for interpretation by Medical Officer. Assists with cardio-pulmonary resuscitation procedures. Performs operator maintenance on equipment and accessories.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry, general sciences, biology physiology, and hygiene.
   b. Physical: Normal color discrimination required.
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Navy: Intensive and/or Coronary Care Technician (HM-8931)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Electroencephalograph Technician (078.368)

3. Military Titles: (Electroencephalograph Technician)
   Army: Electroencephalograph Specialist (91M)
   Navy: Electroencephalography Technician (HM-8454)
   Air Force: Neurology Specialist (90932)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Assists medical officer in performing electroencephalography tests. Prepares patients for examinations. Operates electroencephalography equipment to examine patients for organic brain diseases. Records test results and maintains elecroencephalography equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general science, biology, hygiene, physiology and chemistry.
   b. Physical: None
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)
   Air Force: Psychiatric Clinic Specialist (91450); Psychiatric Ward Specialist (91451)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Radiologic Technologist (078.368)

3. Military Titles: (X-ray Technician)
   Army: X-ray Specialist (91P)
   Navy: X-ray Technician (HM-8452)
   Air Force: Radiology Specialist (90350)
   Coast Guard: Hospital Corpsman (HM-07)

4. Composite Service Job Statement: Operates medical X-ray equipment in the performance of diagnostic X-ray examinations and therapeutic treatment. Assists the radiologist in fluoroscopic examinations, X-ray therapy and special radiographic procedures. Processes X-ray films and maintains them on file as well as departmental records and files. May perform photodosimetric duties and operational maintainance of medical X-ray equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, hygiene and physiology.
   b. Physical: Must distinguish red/green color discrimination (Army).
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Army: Dental Specialist (91E)
   Navy: Hospital Corpsman (HM); Dental Technician (DT)
   Air Force: Dental Specialist (98150)
   Coast Guard: Dental Technician (DT)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Medical-Laboratory Assistant (078.381)

3. Military Titles: (Medical Laboratory Technician)
   Army: Medical Laboratory Specialist (92B)
   Navy: Cytology Technician, Basic (HM-8504); Cytotechnologist Technician (HM-8505); Laboratory Technician, Basic (HM-8501)

Air Force: Medical Laboratory Specialist (90450); Cardiopulmonary Laboratory Specialist (91630)

Coast Guard: Hospital Corpsman (HM-03)

4. Composite Service Job Statement: Performs routine tests in medical laboratory for use in diagnosis and treatment of diseases. Conducts chemical and bacteriological laboratory tests such as blood tests, urinalysis, bacteria tests and malaria smears. Sets up and adjusts laboratory apparatus and equipment. May prepare slides and vaginal and cervical specimens to detect the presence of abnormalities.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in hygiene, biology, physiology, chemistry and zoology.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)
   Coast Guard: Dental Technician (DT)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Nuclear Medical Technologist (078.381)

3. Military Titles: (Nuclear Medical Technician)
   Navy: Clinical Nuclear Medicine Technician (HM-8416)
   Air Force: Nuclear Medicine Specialist (90930)

4. Composite Service Job Statement: Performs scientific laboratory techniques utilizing radioactive isotopes to aid in diagnosis, treatment, or prevention of disease or to support biomedical research. Calculate and administers doses of radioactive isotopes to patients. Operates and maintains specialized clinical electronic equipment designed to detect, identify and measure ionizing radiation. Assists in technical aspects of radioisotope therapy procedures. Conducts radiation safety program of radioisotope laboratory.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry, physiology, biology and physics.
   b. Physical: Must have normal color discrimination.
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)
   Air Force: Radiology Specialist (90350)

MEDICAL AND DENTAL TECHNOLOGY

1. USOE Cluster: Health

2. Civilian Title: Tissue Technologist (078.381)

3. Military Titles: (Tissue Technologist)
Army: Medical Laboratory Specialist (92B)
Navy: Histology Technician, Basic (HM-8502); Histology Technician, Advanced (HM-8503)
Air Force: Histopathology Specialist (90431)

4. Composite Service Job Statement: Performs specimen accession, preparation, processing, imbedding, staining and mounting of surgically and necropsy obtained tissue for Pathological examinations. Acts as technical assistant at autopsies. Maintains autopsy and surgical instruments. Maintains records of all autopsies and surgical specimens.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in biology, physiology, chemistry, first aid and hygiene.
b. Physical: Normal color discrimination.
c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
Navy: Hospital Corpsman (HM)
Air Force: Medical Laboratory Specialist (90450)
Coast Guard: Hospital Corpsman (HM)

MEDICINE AND HEALTH

1. USOE Cluster: Health

2. Civilian Title: Inhalation Therapist (079.368)

3. Military Titles: (Respiratory Specialist)
Army: Respiratory Specialist (91V)
Navy: Respiratory Care Technician (HM-8541)

4. Composite Service Job Statement: Operates respiratory equipment to deliver medicinal gases and drugs in aerosol mist form to patients. Fits face masks, arranges tent or hood and tapes cannula and catheter in position. Assists in the operation of mechanical respiratory aids, such as oxygen tents, incubators, ventilators, respirators, resuscitators, intermittent positive pressure breathing apparatus and ultrasonic nebulizers. Observes and records response of patient to treatments. Performs blood gas analysis to determine carbon dioxide, oxygen and hydrogen ion content. Performs preventive maintenance on equipment and accessories.

5. Desirable Qualifications Summary:
a. Academic Background: High School graduate or GED equivalent. Courses in hygiene, biology, physiology and chemistry.
b. Physical: Normal color discrimination.
c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
Army: Clinical Specialist (91C)
Navy: Hospital Corpsman (HM)

MEDICINE AND HEALTH

1. USOE Cluster: Health

2. Civilian Title: Medical Assistant (079.368)

3. Military Titles: (Medical Assistant)

Army: Clinical Specialist (91C); Medical Specialist (91B); EENT Specialist (91U); Medical Senior Sergeant (91Z)

Navy: Hospitalman (HN); Hospital Corpsman (HM); Aerospace Medicine Technician (HM-8406); Aerospace Physiology Technician (HM-8409); Physician's Assist Trainee (HM-8422); Urological Technician (HM-8486); Dermatology Technician (HM-8495); Medical Deep Sea Diving Technician (HM-8493); Intensive and/or Coronary Care Technician (HM-8531); Respiratory Care Technician (HM-8541); Orthopedic Technician (HM-8561); Clinical Research Technician (HM-8581); Nuclear Submarine Medicine Technician (HM-8402); Nuclear Medicine Technician (HM-8407); Cardiopulmonary Technician (HM-8408); Medical Service Technicians (HM-8424, 8425); Submarine Medicine Technician (HM-8403)

Air Force: Aeromedical Specialist (90150); Ophthalmology Specialist (91230); Otolaryngology Surgical Specialist (91231); Urology Specialist (91232); Orthopedic Clinic Specialist (91233); Allergy/Immunology Specialist (91234); Physician Assistant (91730)

Coast Guard: Hospital Corpsman (HM-02)

4. Composite Service Job Statement: Performs any one or a combination of the following: Schedules and prepares patients for examination and treatment. Cleans, sterilizes and maintains instruments. Assists Medical Officer in performing routine diagnostic tests, administering immunizations and performing surgical procedures. Interviews patients and measures and records vital signs. Renders medical assistance to personnel in the absence of a medical officer, and performs advanced first aid and minor surgery. Inspects facilities to insure sanitary conditions. Maintains necessary records and accounts and procures medical supplies and materials.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in hygiene, biology, physiology, chemistry, first aid and typing.
   b. Physical: Normal color discrimination required (Army/Coast Guard).
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
Army: Dental Specialist (91E)
Navy: Dental Technician (DT)
Air Force: Medical Service Specialist (90250); Operating Room Specialist (90252)
Coast Guard: Dental Technician (DT)

MEDICINE AND HEALTH

1. USOE Cluster: Health

2. Civilian Title: Occupational Therapy Aid (079.368)

3. Military Titles: (Occupational Therapy Specialist)
Army: Occupational Therapy Specialist (91L)
Navy: Physical and Occupational Therapy Technician (HM-8466)
Air Force: Occupational Therapy Specialist (91351)

4. Composite Service Job Statement: Assists Occupational Therapist in administering medically oriented occupational programs to promote patient rehabilitation. Instructs patients in such activities as woodworking, metal working, ceramics, painting and other therapeutic activities. Stimulates and maintains patient's interest through sports, exercises and organized games. Prepares and lays out project supplies and tools. Observes patient's response and reports observations to Occupational Therapist.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in arts and crafts, industrial arts, biology, hygiene, physiology and chemistry.
   b. Physical: Normal color discrimination mandatory (Army).
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
Army: Physical Therapy Specialist (91J)
Navy: Hospital Corpsman (HM)
Air Force: Physical Therapy Specialist (91350)
Coast Guard: Hospital Corpsman (HM)

MEDICINE AND HEALTH

1. USOE Cluster: Health

2. Civilian Title: Dental Assistant (079.378)

3. Military Titles: (Dental Assistant)
Army: Dental Specialist (91E)
Navy: Dental Technician (DT); Dental Assistant, Advanced (DT-8703); Field Service Dental Technician (DT-8707); Dentalman (DN)
Air Force: Dental Specialist (98150); Dental Assistant (98330)
Coast Guard: Dental Technician (DT)

4. Composite Service Job Statement: Assists Dental Officer in treatment of patients performing both clinical and administrative duties. Prepares patients for dental examination and general dental treatment. Arranges dental instruments, materials, and medications and hands to dentist as required. Keeps oral operating area clear during dental procedures by use of suction devices, water sprays, cotton rolls and holders and by retraction of cheek and tongue. Prepares dental materials such as amalgam, cements, and impression materials. Sterilizes and cares for dental equipment and instruments. Maintains patient appointment schedule and dental records. Exposes, processes, and mounts dental X-Ray films. Administers dental first aid to control hemorrhage and alleviate shock.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, hygiene, and physiology.
   b. Physical: Normal color discrimination required (Coast Guard/Army).
   c. Specific: Interest and aptitude for working in dentistry.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)
   Air Force: Preventive Dentistry Specialist (98131)
   Coast Guard: Hospital Corpsman (HM)

MEDICINE AND HEALTH

1. USOE Cluster: Health
2. Civilian Title: Surgical Technician (079.378)
3. Military Titles: (Operating Room Technician)
   Army: Operating Room Specialist (91D)
   Navy: Operating Room Technician (HM-8483); Special Operations Technician (HM-8492); Transplantation Technician (HM-8433)
   Air Force: Operating Room Specialist (90252)
   Coast Guard: Hospital Corpsman (HM-09)

4. Composite Service Job Statement: Assist Medical Officer in carrying out surgical techniques. Provides nursing care, safety, and support to patients before, during and after surgery. Selects, sterilizes, and prepares instruments and supplies. Maintains adequate supply of instruments and materials and the aseptic environment necessary for surgery. May assist anesthetist during operating procedures in giving artificial respiration and in the use of resuscitators. Maintains surgical equipment and records. Assists surgeon by anticipating need for and passing instruments and other items.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in hygiene, biology, physiology, chemistry, first aid and general sciences.
   b. Physical: Normal color discrimination required (Coast Guard/Army).
   c. Specific: Experience in first aid. Desire to help those in need.
6. Related Service Jobs:
   Army: Dental Specialist (91E)
   Navy: Hospital Corpsman (HM); Dental Technician (DT)
   Air Force: Cardiopulmonary Laboratory Specialist (91630)

VOCATIONAL EDUCATION

1. USOE Cluster: Public Services
2. Civilian Title: Ground Instructor, Instrument (097.228)
3. Military Titles: (Flight Simulator Technician)
   Army: Flight Simulator Specialist (93D)
   Navy: Tradevman (TD); Flight/Tactics Trainer Technicians (TD-7502-7586)
   Air Force: Instrument Trainer Specialist (34151); Flight Simulator Specialist (34250)
   Marine Corps: Aviation Training Devices Technicians (6662-6666); Training Support Center Chief (6693)

4. Composite Service Job Statement: Instructs students in techniques of instrument flight and navigational procedures utilizing flight simulators. Inspects and maintains flight trainers including testing, adjusting, repairing or replacement of mechanical, electrical or electronic systems. Familiarizes student with location and use of controls, explains execution of maneuvers and operation and use of electronic navigation devices in simulators. Operates instrument flight simulator console controls to induce instrument readings and audible signals simulating aids to navigation. Operates switches and controls to establish indication of inflight problems or emergencies. Evaluates and critiques student performances.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, algebra, electricity, electronics and shop work.
   b. Physical: Normal color discrimination. Required to possess clear and well modulated voice.
   c. Specific: None

6. Related Service Jobs:
   Air Force: Defensive Systems Trainer Specialist (34251); Navigation/Bombing/Tactics Trainer Specialist (34350)

VOCATIONAL EDUCATION

1. USOE Cluster: Public Services

2. Civilian Title: Instructor, Vocational School (097.228)

3. Military Titles: (Vocational Training Instructor)
   Navy: General Instructor (9501); Special Instructor (9502)
   Coast Guard: Instructor (QC: ST)

4. Composite Service Job Statement: Instructs personnel in various vocational and general military subjects at Navy schools, Training Centers and Reserve Units. Organizes and writes learning objectives and lesson plans of practical and technical instruction, involving demonstrations of skill, lectures in theory, practices, methods, and processes. Plans and supervises work of students in classroom, shop or laboratory. Analyzes, plans and develops tests to evaluate student progress and instructional quality. Administers tests, both orally and in writing, to students. Researches information of new or revised subject matter to insure lesson plans are up-to-date.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in public speaking, English composition, grammar and psychology.
   b. Physical: Clear, distinct speaking voice.
   c. Specific: Sincere desire to help others.

6. Related Service Jobs:
   Navy: Tradevman (TD); Physical Training Instructor (9503); Survival Evasion, Resistance and Escape Instructor (9505)
   Air Force: Training Specialist (75132); Instructional System Specialist (75133); Survival Specialist (92150)

LAW AND JURISPRUDENCE

1. USOE Cluster: Public Services
2. Civilian Title: Law Clerk (119.288)
3. Military Titles: (Law Clerk)
   Army: Legal Clerk (71D)
   Navy: Legalman (LN)
   Air Force: Legal Services Specialist (70550)
   Marine Corps: Legal Services Chief (4449)

4. Composite Service Job Statement: Researches legal data for briefs or arguments based on military law or decisions. Searches for and studies legal records and documents to obtain data applicable to cases under consideration. Assists and advises military attorneys in problems relating to administrative and legal matters. Supervises legal office activities.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business or commercial law, English, typing and stenography.
   b. Physical: None
   c. Specific: Clerical experience.

6. Related Service Jobs:
   Navy: Yeoman (YN); Legal Clerk (YN-2516)
   Marine Corps: Legal Services Man (4421); Legal Services Reporter-GCM (4423)
   Coast Guard: Yeoman (YN-03)

WRITERS AND EDITORS, MOTION PICTURE, RADIO AND TELEVISION EDITOR, NEWS

1. USOE Cluster: Communication and Media
2. Civilian Title: Editor, News (131.038)
3. Military Titles: (Radio and Television Journalist)
   Army: Broadcast Specialist (71R)
   Navy: Journalist (JO); Radio-TV Specialist (JO-3221)
   Air Force: Television and Radio Production Specialist (79131)
   Marine Corps: Radio and Television Information Man (4313)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Reviews, edits and rewrites news items for radio and television presentation. Selects copy from all available sources for publication. Selects visual material to support TV scripts. Write stories in journalistic style. Assures all material released adheres to policy, ethics, and good taste.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in journalism, speech, grammar, and English composition.
   b. Physical: None.
   c. Specific: Must be High School graduate (Air Force/Navy). Must be eligible to receive appropriate security clearance (Army). High degree of journalistic ability.

6. Related Service Jobs:
Army: Information Specialist (71Q)
Air Force: Information Specialist (79150)
Marine Corps: Press Information Man (4312)

WRITERS AND EDITORS, MOTION PICTURE, RADIO AND TELEVISION EDITOR, NEWS

1. USOE Cluster: Communication and Media

2. Civilian Title: Manager, News, Special Events, and Public Affairs (131.038)

3. Military Titles: (Public Affairs Chief)
Army: Broadcast Specialist (71R)
Navy: Journalist (JO)
Air Force: Television and Radio Production Technician (79171)
Marine Corps: Public Affairs Chief (4391)
Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Supervises and coordinates activities of personnel engaged in producing radio or television programs. Coordinates arrangements for news conferences. Plans news coverage by all media for military events. Reviews, edits and approves news stories and photographic material prior to release. Organizes and supervises training programs for writers and editors. Provides professional and technical assistance in the conduct of public affairs, community relations, and internal projects and programs.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in journalism, English composition, grammar and typing.
b. Physical: None.
c. Specific: Must be High School graduate (Navy/Air Force). Must be eligible to receive appropriate security clearance (Army). High degree of journalistic ability.

6. Related Service Jobs:
Army: Information Specialist (71Q)
Navy: Radio-TV Specialist (JO-3221);
Marine Corps: Press Information Man (4312); Radio and Television Information Man (4313)

WRITERS AND EDITORS, MOTION PICTURE, RADIO AND TELEVISION EDITOR, NEWS

1. USOE Cluster: Communication and Media

2. Civilian Title: Script Writer (131.088)

3. Military Titles: (Script Writer)
Army: Broadcast Specialist (71R)
Navy: Radio-TV Specialist (JO-3221); Motion Picture Script Writer (PH-8146)
Air Force: Television and Radio Production Specialist (79131)
Marine Corps: Radio and Television Information Man (4313)
Coast Guard: Photo-Journalist (PA-03)

4. Composite Service Job Statement: Writes and edits scripts for Radio and Television productions. Writes dialogue for sketches, plays, and similar types of presentations. Selects, interprets, and revises scripts to be used in preparation of programs.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in English, speech, journalism and typing.
   b. Physical: None.
   c. Specific: Must be eligible for appropriate security clearance (Army). Must be high school graduate, a careful observer, imaginative and have good reading habit.

6. Related Service Jobs:
   Army: Information Specialist (71Q)
   Navy: Journalist (JO)
   Air Force: Information Specialist (79150)
   Marine Corps: Press Information Man (4312)

WRITERS AND EDITORS, PUBLICATIONS

1. USOE Cluster: Communications and Media

2. Civilian Title: Editor, Managing, Newspaper (132.018)

3. Military Titles: (Newspaper Managing Editor)
   Army: Information Specialist (71Q)
   Navy: Journalist (JO)
   Air Force: Information Technician (79170)
   Marine Corps: Public Affairs Chief (4391)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Supervises and coordinates activities of personnel engaged in the publishing of a base, station, or command newspaper. Designs and lays out newspaper and other informational publications. Reviews, edits, and approves news stories and photographic material prior to release. Coordinates arrangements for news conferences. Plans news coverage by all media for military events. Organizes and supervises training programs for writers and editors. Provides professional and technical assistance to commanders in the conduct of public community relations and internal projects and programs.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in journalism, English composition, grammar, and spelling.
   b. Physical: Ability to speak clearly and distinctly.
   c. Specific: Must be High School graduate (Navy/Air Force). May be required to have appropriate security clearance (Army).

6. Related Service Jobs:
   Army: Broadcast Specialist (71R)
   Navy: Radio-TV Specialist (JO-3221)
   Air Force: Television and Radio Production Technician (79171)
   Marine Corps: Press Information Man (4312)

WRITERS AND EDITORS, PUBLICATIONS

1. USOE Cluster: Communication and Media
2. Civilian Title: Reporter (132.268)
3. Military Titles: (Reporter)
   - Army: Information Specialist (71Q)
   - Navy: Journalist (JO)
   - Air Force: Information Specialist (79150)
   - Marine Corps: Press Information Man (4312)
   - Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Collects material for news stories and feature articles by personal interviews, examining messages and witnessing and transcribing events. Writes news stories, feature articles and editorials for press release to respond to public queries or publish in newspapers and magazines within the federal government. Coordinates the production of photo stories with photographers and artists by providing them with outlines of the stories and with themes for the visual material. Selects photographs or other illustrative materials to be used with stories and articles. May take and develop photographs for use in publicity media. Writes picture captions and headlines. May supervise or assist in the production of a unit newspaper or magazine. Performs military-community relations such as assisting in arranging tours and open houses for civilian or military personnel and provides informational films for civic groups.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in spelling, grammar, English composition, and journalism.
   b. Physical: None.
   c. Specific: Must be high school graduate (Navy/Air Force). May be required to have appropriate security clearance (Army). Writing experience in school or commercial publication.

6. Related Service Jobs:
   - Army: Broadcast Specialist (71R)
   - Navy: Radio-TV Specialist (JO-3221)
   - Air Force: Radio and Television Production Specialist (79131)
   - Marine Corps: Radio and Television Information Man (4313)

INTERPRETERS AND TRANSLATORS

1. USOE Cluster: Fine Arts and Humanities
2. Civilian Title: Interpreter (137.268)
3. Military Titles: (Interpreter)
   - Army: Interrogator (96C); Translator-Interpreter (04B); Expert Linguist (04C)
   - Navy: Communications Technician (Interpretive-CTI); Communications Technicians (Interpretive-CT-48SA-48WU Specific Language)
   - Air Force: Linguist/Interrogator Specialist (20350); Voice Processing Specialist (20331)
   - Marine Corps: Interrogator-Translator (Designated Language) (0251); Interrogator-Translator Chief (0294); Interpreter (Designated Language) (8611)

4. Composite Service Job Statement: Interprets into English or foreign language by listening, mentally translating and orally expressing statements, using phraseology selected to preserve the original intent, meaning and emphasis. Phrases ideas to avoid language that is stilted, unnatural or difficult to understand. Displays impartial attitude toward speakers and to facts and opinions expressed. May translate documents or interrogate foreign nationals.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in a foreign language and typing.
   b. Physical: None.
   c. Specific: Must be eligible to receive appropriate security clearance. Linguistic ability. Talent for detail.

6. Related Service Jobs: None

INTERPRETERS AND TRANSLATORS

1. USOE Cluster: Fine Arts and Humanities

2. Civilian Title: Translator (137.288)

3. Military Titles: (Translator)
   Army: Expert Linguist (04C); Translator-Interpreter (04B)
   Navy: Communications Technician (Interpretive-CTI); Communications Technician (Interpretive-CT-48SA-48WU Specific Language)
   Air Force: Linguist Interrogator Specialist (20350); Voice Processing Specialist (20331)
   Marine Corps: Interrogator-Translator (Designated Language) (0251); Interrogator-Translator Chief (0294)

4. Composite Service Job Statement: Translates into either English or foreign language, written material such as combat orders, administrative documents, messages or reports. Edits translations for correctness of grammatical construction, phraseology, punctuation, idiom and clarity of expression. Reviews completed translations for accuracy and completeness. May interpret conversations or interrogate foreign nationals. May maintain files of translations and other intelligence information.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in a foreign language and typing.
   b. Physical: None.
   c. Specific: Must be eligible to receive appropriate security clearance. High degree of linguistic ability. Talent for detail.

6. Related Service Jobs:
   Marine Corps: Interpreter (Designated Language) (8611)

COMMERCIAL ARTISTS

1. USOE Cluster: Fine Arts and Humanities

2. Civilian Title: Illustrator (141.081)

3. Military Titles: (Illustrator)
Army: Illustrator (81E)
Navy: Illustrator Draftsman (DM)
Air Force: Graphics Specialist (23151)
Marine Corps: Illlustrator (4911)
Coast Guard: Draftsman (QC: DM)

4. Composite Service Job Statement: Creates or copies artistic or illustrative material for use as training aids, posters, charts, displays and similar purposes. Draws and paints designs, figures, and illustrations. Determines method of laying out work and most appropriate manner of presentation. Selects, mixes and matches oil paints, water colors and inks. Performs mathematical computations for layout and design of illustrations. Fabricates visual aids using photographic silk screen processes. Creates special effects on visual aids using air brush techniques. Letters visual aids or posters using free hand or mechanical methods. May draw medical illustrations.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in drawing, drafting, and mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Aptitude for close, accurate work.

6. Related Service Jobs:
Army: Arts and Crafts Specialist (03D)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media

2. Civilian Title: Camera Operator (143.062)

3. Military Titles: (Television Camera Man)
Army: TV Cameraman (84E)
Navy: Monochrome TV Technician (9574)
Air Force: Television Production Specialist (23251)

4. Composite Service Job Statement: Operates studio television cameras to photograph scenes for broadcasting. Assembles and arranges camera equipment such as dollies, tripods and cables. Selects and attaches lenses, filters, shades and other accessories to camera. Manipulates camera by tilting and panning to frame subject matter to achieve optimum pictorial composition, balance, perspective and focus. Repositions camera following production director's instructions. Anticipates and follows action to maintain continuity or movement.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in photography.
   b. Physical: Normal color discrimination (Army).
   c. Specific: Experience in photography as a hobby or job.

6. Related Service Jobs:
Army: Motion Picture Photographer (84C)
Navy: Motion Picture Cameraman (PH-8143); Photographer (PH)
Air Force: Camera-Recording Specialist (23250)
Marine Corps: Motion Picture Cameraman (4671)
Coast Guard: Photo-Journalist (PA)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media

2. Civilian Title: Camera Operator, First (143.062)

3. Military Titles: (Chief Camera Operator)
   Army: Still Photographer (84B)
   Navy: Motion Picture Director (PH-8144)
   Air Force: Camera Recording Technician (23270)
   Marine Corps: Motion Picture Cameraman (4671); Cinematography Specialist (4672); Photographic Chief (4691)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Directs and coordinates camera crew in the production of motion pictures. Determines requirements of production and selects camera lenses, accessories and related equipment to photograph scenes. Directs photographing of scenes and episodes. Evaluates scene to determine lighting requirements and coordinates requirements with lighting personnel.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in photography.
   b. Physical: Normal color discrimination.
   c. Specific: May require appropriate security clearance. Experience in photography as a hobby or job.

6. Related Service Jobs:
   Army: TV Production Specialist (84F)
   Navy: Photographer's Mate (PH); Educational TV Production Director (9575); Radio/TV Program Director (9572)
   Air Force: Television Production Technician (23271)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media

2. Civilian Title: Camera Operator, Second (143.062)

3. Military Titles: (Motion Picture Camera Operator)
   Army: Motion Picture Photographer (84C)
   Navy: Motion Picture Cameraman (PH-8143)
   Air Force: Camera Recording Specialist (23250)
   Marine Corps: Motion Picture Cameraman (4671)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Operates cameras to photograph actual or simulated scenes in the production of motion pictures. Sets up, adjusts and operates production-type motion picture cameras under direction of chief cameraman. Moves camera and adjusts controls to follow action of scenes being photographed. Keeps log of footage, data, time and other technical information.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in photography.
   - b. Physical: Normal color discrimination.
   - c. Specific: May be required to have appropriate security clearance. Experience in photography as a job or hobby.

6. Related Service Jobs:
   - Army: Still Photographer (84B); TV Cameraman (84E)
   - Navy: Monochrome TV Technician (9574); Photographer's Mate (PH)
   - Air Force: Television Production Specialist (23251)
   - Marine Corps: Cinematography Specialist (4672)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media

2. Civilian Title: Photographer, Commercial (143.062)

3. Military Titles: (Still Photographer)
   - Army: Still Photographer (84B); Process Photographer (83D)
   - Navy: Photographer's Mate (PH); Underwater Photographer, Scuba Diver (PH-8136)
   - Air Force: Still Photographic Specialist (23152)
   - Marine Corps: Photographer (4631); Photojournalist (4634)
   - Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Operates still cameras to photograph personnel, terrain, equipment, activities, records and documents for publicity, training or instructional purposes. Selects and checks camera, film, and accessory equipment such as lenses, filters and lighting equipment. Takes black-and-white and color photographs using knowledge of photographic composition, theory of light, lenses, filters and other related factors. Arranges subject matter for proper emphasis.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in photography, physics and chemistry.
   - b. Physical: Normal color discrimination.
   - c Specific: Experience in photography as a hobby or job. May require appropriate security clearance.

6. Related Service Jobs:
   - Army: Motion Picture Photographer (84C)
   - Navy: Documentary/News Still Photographer (PH-8148)
   - Air Force: Camera Recording Specialist (23250)
   - Marine Corps: Plate/Layout Man (1531); Motion Picture Cameraman (4671); Cinematography Specialist (4672)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media

2. Civilian Title: Photographer, News (143.062)

3. Military Titles: (News Photographer)
   Army: Still Photographer (84B)
   Navy: Documentary/News Still Photographer (PH-8148)
   Air Force: Still Photographic Specialist (23152)
   Marine Corps: Photographer (4631); Photojournalist (4634)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Operates still cameras to photograph news events and items of a historical nature. Selects and checks camera, film and accessory equipment such as lenses, filters and lighting equipment. Takes black and white and color photographs using knowledge of photographic composition, theory of light, lenses, filters and other related factors. Writes captions and text for news stories. Coordinates photo stories with news personnel.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in photography, physics and chemistry.
   b. Physical: Normal color discrimination required.
   c. Specific: May require appropriate security clearance. Experience in photography as a hobby or job.

6. Related Service Jobs:
   Army: Motion Picture Photographer (84C)
   Navy: Photographer's Mate (PH); Motion Picture Cameraman (PH-8143); Journalist (JO)
   Air Force: Camera Recording Specialist (23250)
   Marine Corps: Motion Picture Cameraman (4671); Cinematography Specialist (4672); Press Information Man (4312)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media

2. Civilian Title: Medical Photographer (143.382)

3. Military Titles: (Medical Photographer)
   Army: Still Photographer (84B)
   Navy: Photography Technician (HM-8472)
   Air Force: Camera-Recording Specialist (23250)

4. Composite Service Job Statement: Operates still or motion picture cameras to take photographs of clinical and surgical cases, body cavities, wounds, injuries, pathological specimens or sections, post mortems, organisms and other medical subjects. May process, finish and mount black-and-white or color medical photographs.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in photography.
    b. Physical: Normal color discrimination mandatory.
    c. Specific: Experience in photography as a hobby or job.
6. Related Service Jobs:
    Army: Motion Picture Photographer (84C)
    Navy: Photographer's Mate (PH)

PHOTOGRAPHY

1. USOE Cluster: Communication and Media
2. Civilian Title: Photographer, Aerial (143.382)
3. Military Titles: (Aerial Photographer)
    Army: Motion Picture Photographer (84C); Still Photographer (84B)
    Navy: Photographer's Mate (PH)
    Air Force: Camera-Recording Specialist (23250); Still Photographic Specialist (23152)
    Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Operates still and motion picture cameras to obtain aerial photographs. Photographs geographical areas or sites from aircraft in flight for news, mapping, intelligence or other purposes. Coordinates with aircraft crew to assure proper aircraft positioning and maneuvering to acquire desired results. Calculates number of exposures and time lapses between them to obtain sequential pictures. Loads camera and mounts in aircraft. Performs preflight inspections of aerial photographic cameras and associated equipment. Calculates and adjusts aperture settings and exposure times. May process film and assemble aerial mosiacs.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in photography.
    b. Physical: Normal color discrimination.
    c. Specific: Experience in photography as a hobby or job.
6. Related Service Jobs:
    Marine Corps: Aviation Photographic Film Processor (6675)

ART

1. USOE Cluster: Fine Arts and Humanities
2. Civilian Title: Teacher, Art (149.028)
3. Military Titles: (Arts and Crafts Specialist)
    Army: Arts and Crafts Specialist (03D)
    Air Force: Recreation Specialist (74151)

4. Composite Service Job Statement: Organizes and conducts arts and crafts activities. Instructs individuals and groups in various basic activities of ceramics and sculpture, drawing and painting, jewelry and art metal, general handicrafts and repair, model building and display, photography, woodwork and specialized activities such as boat building and electronics. Manages and maintains crafts facilities and equipment. Pro-

motes and organizes arts and crafts clubs, contests, demonstrations and exhibits. Instructs in shop safety and proper use of tools and equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in ceramics, sculpturing, painting, metal working and general handicrafts.
   b. Physical: Normal color discrimination.
   c. Specific: None
6. Related Service Jobs: None

DRAMATICS

1. USOE Cluster: Fine Arts and Humanities
2. Civilian Title: Director, Stage (150.028)
3. Military Titles: (Stage Director)
   Army: Performing Arts Specialist (03B)

4. Composite Service Job Statement: Plans, organizes and conducts theatrical and musical programs. Selects, prepares and adapts theatrical scripts and musical programs. Locates directors, writers and technicians. Auditions actors, performers, singers, musicians and musical groups. Conducts clinics in writing, direction, production, acting, stagecraft, costuming, musical composition, arranging, instrumentation, choreography and singing. Assists touring shows while units are on post/installation.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None
   c. Specific: None
6. Related Service Jobs: None

MUSIC

1. USOE Cluster: Fine Arts and Humanities
2. Civilian Title: Musician, Instrumental (152.048)
3. Military Titles: (Musician)
   Army: Bandsman (02B through 02Z)
   Navy: Musician (MU); Instrumentalist (MU-3801 through 3814)
   Air Force: Instrumentalist (87150); Instrumentalist Specialist (87131)
   Marine Corps: Musician (5500 though 5593); Band of the USMC, Washington, DC (9811)
   Coast Guard: Musician (QC: MU)

4. Composite Service Job Statement: Performs any one or a combination of the following: Plays musical instrument under various situations, such as in concert, stage and orchestra. Drills with marching band. Executes drill formations upon verbal command or baton signal of drum major or leader while playing or carrying musical instrument. Plays from musical score or memory while standing or marching. Maintains music library and arranges for rehearsal facilities. Repairs and adjusts musical equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in music theory.
   b. Physical: None
   c. Specific: High degree of proficiency in chosen instrument. Experience in musical instruments mandatory (Air Force, Marine Corps, Coast Guard).

6. Related Service Jobs: None

MUSIC

1. USOE Cluster: Fine Arts and Humanities

2. Civilian Title: Orchestra Leader (152.048)

3. Military Titles: (Orchestra Leader)
   Army: Enlisted Bandleader (02Z)
   Navy: Musician (MU)
   Air Force: Band Superintendent (87191)
   Marine Corps: Enlisted Band Leader (5519)
   Coast Guard: Musician (QC: MU)

4. Composite Service Job Statement: Conducts instrumental music groups, such as orchestras and dance bands. Directs the operation of military band activities such as rehearsals, drills, and performances. Plans and conducts training in functions such as music theory, harmony, ear training, sight singing, conducting, band arranging, instrumentation and applied music. Performs as musician as required.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in music theory.
   b. Physical: None
   c. Specific: High degree of expertise in musical theory.

6. Related Service Jobs: None

MUSIC

1. USOE Cluster: Fine Arts and Humanities

2. Civilian Title: Popular Singer (152.048)

3. Military Titles: (Vocalist)
   Navy: Vocalist (MU-3825)
   Air Force: Vocalist (87150R)

4. Composite Service Job Statement: Reads and sings vocal musical parts under the direction of conductor. Memorizes vocal parts.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None
   c. Specific: Ability to deal with people.

6. Related Service Jobs: None

MUSIC

1. USOE Cluster: Fine Arts and Humanities
2. Civilian Title: Arranger (152.088)
3. Military Titles: (Arranger)
   - Army: Enlisted Band Leader (02Z)
   - Navy: Musician (MU)
   - Air Force: Music Arranger (87150P)
   - Marine Corps: Enlisted Bandleader (5519); Arranger, Band (5567); Drum and Bugle Corps Arranger (5592); Drum and Bugle Corps Drum Major (5571); Bugler, Soprano or Mellophone (5574); Bugler, French Horn (5576)
   - Coast Guard: Musician (QC: MU)
4. Composite Service Job Statement: Arranges or transcribes music for various musical groups. Adapts music from scores and unharmonized melodic lines for use by bands. Notates part onto score and copies parts for individual instrument from score.
5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in music theory.
   - b. Physical: Auditory acuity to determine pitch, quality and rhythm of music.
   - c. Specific: High degree of expertise in musical theory.
6. Related Service Jobs:
   - Army: Performing Arts Specialist (03B)
   - Marine Corps: Drum and Bugle Corps Drum Major (5571)

ATHLETICS AND SPORTS

1. USOE Cluster: Hospitality and Recreation
2. Civilian Title: Instructor, Physical (153.228)
3. Military Titles: (Physical Instructor)
   - Army: Physical Activities Specialist (03C)
   - Navy: Physical Training Instructor (9503)
   - Air Force: Athletic Specialist (74150)
   - Marine Corps: Physical Training Instructor (8561)
4. Composite Service Job Statement: Operates physical fitness facilities. Drills and trains personnel in methods of physical fitness. Organizes training schedules and supervises recreational activities. Gives lectures on physical fitness. May provide instruction in weight training, circuit and interval training, isometric exercises and all methods of physical conditioning. May be required to practice first aid.
5. Desirable Qualifications Summary:
   - a. Academic Background: None.
   - b. Physical: None.
   - c. Specific: Manual dexterity.
6. Related Service Jobs:
   - Air Force: Recreation Specialist (74151)

ENTERTAINMENT AND RECREATION

1. USOE Cluster: Communications and Media

2. Civilian Title: Producer I (159.118)

3. Military Titles: (Producer-Director)
Army: Television Production Specialist (84F)
Navy: Radio-TV Specialist (JO-3221); Educational TV Production Director (9575); Radio-TV Program Director (9572)
Air Force: Television and Radio Production Technician (79171)
Marine Corps: Public Affairs Chief (4391)
Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Produces and directs television and radio broadcast/closed circuit programs. Writes television and radio programs and scripts. Announces and performs in broadcasts. Prepares news releases for distribution to local broadcast media. Determines type, length, and time of each program. Directs program production at armed forces radio and television facilities.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in journalism, English, typing, and speech.
b. Physical: Ability to speak and write clearly.
c. Specific: Careful observer, imaginative, and have good reading habits.

6. Related Service Jobs:
Army: Broadcast Specialist (71R)
Navy: Journalist (JO)
Air Force: Information Specialist (79150); Television Production Specialist (23251)
Marine Corps: Radio and Television Information Man (4313)

ENTERTAINMENT AND RECREATION

1. USOE Cluster: Communication and Media

2. Civilian Title: Announcer (159.148)

3. Military Titles: (Radio-TV Announcer)
Army: Broadcast Specialist (71R)
Navy: Radio-TV Announcer (9571)
Air Force: Television and Radio Production Specialist (79131)
Marine Corps: Radio and Television Information Man (4313)
Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Announces live or prepares recorded programs for civilian or armed forces radio and television stations. Conducts prepared or impromptu interviews. Describes eyewitness accounts of events such as ceremonies, sporting and public events. May operate control boards or recording machines.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in speech, grammar, and English composition.
   b. Physical: None.
   c. Specific: Ability to speak clearly and distinctly. Must be high school graduate (Air Force). Must have security clearance (Army).

6. Related Service Jobs:
   Navy: Radio-TV Specialist (JO-3221); Journalist (JO)

ENTERTAINMENT AND RECREATION

1. USOE Cluster: Hospitality and Recreation

2. Civilian Title: Dog Trainer (159.228)

3. Military Titles: (Dog Trainer)
   Army: Dog Trainer (00C)
   Navy: Sentry Dog Handler (9541); Sentry Dog Handler Supervisor (9542)
   Air Force: Security Specialist—Military Dog Qualified (81150A); Law Enforcement Specialist—Military Dog Qualified (81250A)

4. Composite Service Job Statement: Trains dogs to obedience and administers specialized training for specific military functions. Teaches dogs to obey commands and accustoms dogs to muzzles, gas masks, and sounds of gunfire. Observes physical and psychological traits manifested by dogs to determine rejection or assignment to more advanced and specialized training. May condition or utilize dogs to participate in reconnaissance and combat patrols, sentry duty, contraband detection, tracking, and casualty and messenger work. Feeds, waters, and grooms dog, and observes for indications of illness or excessive fatigue.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in Animal Husbandry.
   b. Physical: None.
   c. Specific: Ability to establish rapport with animals.

6. Related Service Jobs:
   Army: Military Policeman (95B)
   Marine Corps: Marijuana Detector Dog Handler (5812)

BUDGET AND MANAGEMENT ANALYSIS

1. USOE Cluster: Business and Office

2. Civilian Title: Accountant, Budget (160.188)

3. Military Titles: (Budget Accountant)
   Army: Accounting Specialist (73D)
   Navy: Storekeeper (SK); Aviation Storekeeper (AK)
   Air Force: Budget Specialist (67230)
   Marine Corps: Accounting Analyst/Finance Chief (3452)
   Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Develops, executes and prepares budget estimates, reports and financial plans. Develops financial estimates and financal projections. Receives and distributes budget authorizations and funds. Reviews and analyzes budget and financial plan estimates for validity and conformance with budget directives.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business mathematics, accounting, bookkeeping and commercial arithmetic.
   b. Physical: None
   c. Specific: Office machine, bookkeeping or clerical experience.

6. Related Service Jobs:
   Army: Finance Senior Sergeant (74Z)
   Air Force: Disbursement Accounting Specialist (67153); Auditing Specialist (67330)

ACCOUNTANTS AND AUDITORS

1. USOE Cluster: Business and Office
2. Civilian Title: Auditor (160.188
3. Military Titles: (Auditor)
   Army: Audit Specialist (01L)
   Air Force: Auditing Specialist (67330)
   Marine Corps: Auditing Technician (3441)

4. Composite Service Job Statement: Examines organization operations to detect inefficiency, waste and other adverse conditions. Compares audit programs to insure examination in depth. Confirms the physical existence of assets and liabilities represented by recorded figures. Analyzes and reports on organizational management functions in sufficient detail to reved nature and extent of potential problem areas.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in accounting and business mathematics. Must have Bachelor Degree or higher with 24semester hours in Accounting, plus one year of Accounting, or possess certification as Certified Public Accountant (Army).
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Army: Accounting Specalist (73D)
   Navy: Storekeeper (SK) Disbursing Clerk (DK); Aviation Storekeeper (AK)
   Air Force: General Accounting Specialist (67151); Budget Specialist (67230)
   Marine Corps: Accounting Clerk (3451); Accounting Analyst/Finance Chief (3452); Bookkeeper (4111)
   Coast Guard: Storekeeper (SK)

ACCOUNTANTS AND AUDITORS

1. USOE Cluster: Business and Office
2. Civilian Title: Construction Estimator (160.288)

3. Military Titles: (Construction Estimator)
Navy: Construction Planner and Estimator Specialist (EA-5515)
Air Force: Site Development Technician (55370)
Marine Corps: Combat Engineer (1371)

4. Composite Service Job Statement: Prepares cost and work completion estimates including material, manpower, and equipment requirements for various types of construction projects. Compiles itemized materials and price lists from blueprints or specifications, and computes cost estimates of raw materials to be purchased. Performs scheduling, procurement, production control and management reporting for projects.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics and accounting. Must have course in trigonometry (Navy).
   b. Physical: None
   c. Specific: Aptitude for accurate, detailed work.

6. Related Service Jobs:
Army: Combat Engineer (12B)
Navy: Engineering Aid (EA)

PERSONNEL AND TRAINING ADMINISTRATION

1. USOE Cluster: Public Service

2. Civilian Title: Training Representative (166.228)

3. Military Titles: (Training Technician)
Navy: Instructional Programmer (9506)
Air Force: Training Specialist (75132); Instructional System Specialist (75133)

4. Composite Service Job Statement: Prepares and conducts in-service training for personnel, evaluating training needs in order to develop educational materials for improving performance standards. Performs research relating to course preparation and presentation. Compiles data for use in writing manuals, handbooks, and other training aids required for courses. Develops teaching outlines and lesson plans, determines content and duration of courses, and selects appropriate instruction procedures, based on analysis of training requirements for company personnel. Conducts courses in specialized fields. Tests and evaluates progress of personnel to determine effectiveness of training methods, materials, and courses. Coaches and trains other workers in vocational training methods. May develop self-instructional materials.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Ability to speak clearly and distinctly.
   c. Specific: Experience in guidance or teaching.

6. Related Service Jobs:
Navy: Personnelman (PN)
Air Force: Personnel Specialist (73250); Education Specialist (75150)
Coast Guard: Yeoman (YN)

PERSONNEL AND TRAINING ADMINISTRATION

1. USOE Cluster: Business and Office
2. Civilian Title: Employment Interviewer I (166.268)
3. Military Titles: (Employment Interviewer)
   Army: Personnel Management Specialist (75C)
   Navy: Classification Interviewer (PN-2612)
   Air Force: Personnel Specialist (73250)

4. Composite Service Job Statement: Interviews military personnel to obtain information for job placement. Records and evaluates such information as job experience, educational background, hobbies, abilities and interests of individual. Reviews individual qualifications for special jobs or training assignments. May administer and score basic qualification and other classification tests such as general aptitude, mathematical and mechanical ability.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, public speaking, office practice and psychology.
   b. Physical: None
   c. Specific: Experience in personnel work and vocational guidance.
6. Related Service Jobs:
   Navy: Personnelman (PN)
   Air Force: Training Specialist (75132)
   Coast Guard: Yeoman (YN)

PERSONNEL AND TRAINING ADMINISTRATION

1. USOE Cluster: Public Service
2. Civilian Title: Prisoner-Classification Interviewer (166.268)
3. Military Titles: (Correctional Counselor)
   Army: Correctional Specialist (95C)
   Navy: Correctional Counselor (PN-2616)
   Marine Corps: Correctional Counselor (5832)

4. Composite Service Job Statement: Conducts individual and group counseling to encourage and assist prisoners in establishing a satisfactory adjustment or readjustment to military life. Analyzes prisoner's attitudes, mental capacity and character to assist in prisoner evaluation. Improves communication channels within the confinement facility.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, public speaking and office practice.
   b. Physical: None
   c. Specific: Ability to deal with people. Desire to help those in need.
6. Related Service Jobs:
   Navy: Personnelman (PN); Classification Interviewer (PN-2612)
   Air Force: Corrections Specialist (81251)
   Marine Corps: Corrections Man (5831)

INSPECTORS AND INVESTIGATORS, MANAGERIAL AND PUBLIC SERVICE

1. USOE Cluster: Public Service

2. Civilian Title: Safety Inspector I (168.284)

3. Military Titles: (Ground Safety Inspector)
Navy: Safety Inspector (SW-6021)
Air Force: Safety Specialist (24150)
Marine Corps: Ground Safety Specialist (9956)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Organizes and supervises the operation of safety department. Investigates and analyzes accidents or problem areas and recommends methods to decrease frequency of, or eliminate accidents. Collects data to ascertain accident trends. Inspects project sites, grounds, buildings, and machinery to isolate hazards to life, health, and equipment. Conducts safety education campaigns by preparing and/or distributing literature, posters, charts, and displays. Organizes and directs safety committee. Directs placement of traffic control signs and devices.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in safety, industrial hygiene, and mathematics.
b. Physical: Normal color discrimination mandatory.
c. Specific: High mechanical aptitude.

6. Related Service Jobs:
Navy: Steelworker (SW)
Air Force: Disaster Preparedness Specialist (24250)

INSPECTORS AND INVESTIGATORS, MANAGERIAL AND PUBLIC SERVICE

1. USOE Cluster: Public Service

2. Civilian Title: Boiler Inspector (168.287)

3. Military Titles: (Boiler Inspector)
Navy: Main Propulsion Steam Generating Plant; Inspector (BR-5401)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Inspects boilers installed in plants or ships to ascertain that rules and regulations pertaining to construction, safety, and use of boilers are complied with. Reports deficiencies. Tests and examines boilers, observing meters and pressure gauges during performance test. Investigates boiler accidents and their causes. May inspect tanks, vats or other vessels designed to hold liquids.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in automotive and welding shop.
b. Physical: None
c. Specific: Experience or apprentice training in arc and gas welding.

6. Related Service Jobs:
Army: Steam Locomotive Repairman (65B)
Navy: Boiler-Maker (BR); Hull Technician (HT); Boiler Technician (BT); Gas Turbine Systems Technician (GS)
Air Force: Heating Systems Specialist (54750)

INSPECTORS AND INVESTIGATORS, MANAGERIAL AND PUBLIC SERVICE

1. USOE Cluster: Public Services

2. Civilian Title: Food and Drug Inspector (168.287)

3. Military Titles: (Food Inspector)
   Army: Food Inspection Specialist (91R)
   Air Force: Veterinary Specialist (90850)
   Marine Corps: Veterinary Technician (3373); Veterinary Chief (3383)
   Coast Guard: Hospital Corpsman (HM); Subsistence Specialist (SS)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Inspects food before and after purchase, during processing, handling, transportation, storage and issue to detect contamination. Assists in performing sanitary inspections of establishments supplying subsistence to military units or dining faiclities. Prepares reports to include findings and recommendations for remedial action by supervisor.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, and general science.
   b. Physical: Normal color discrimination and olfactory senses.
   c. Specific: None

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM); Medical Service Technicians (HM-8424-8425)

INSPECTORS AND INVESTIGATORS, MANAGERIAL AND PUBLIC SERVICE

1. USOE Cluster: Public Service

2. Civilian Title: Sanitary Inspector (168.287)

3. Military Titles: (Sanitary Inspector)
   Army: Preventive Medicine Specialist (91S)
   Navy: Preventative Medicine Technician (HM-8432)
   Air Force: Environmental Health Specialist (90750)
   Coast Guard: Hospital Corpsman (HM-06)

4. Composite Service Job Statement: Conducts field collection, sampling and analysis of data on epidemic and endemic diseases. Applies statistical methods to human mortality, morbidity and demographical studies. Makes laboratory identification of parasites affecting man, such as those causing malaria, and recommends methods of control to superiors. Conducts water, milk, food and dining facility sanitation procedures, and sewage and garbage disposal inspection. May be proficient in medical and sanitary aspects of nuclear, biological and chemical warfare.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, general science, hygiene and psysiology.
   b. Physical: Normal color discrimination is mandatory.
   c. Specific: High level of personal cleanliness.

6. Related Service Jobs:
   Army: Food Inspection Specialist (91k)
   Navy: Hospital Corpsman (HM)
   Air Force: Veterinary Specialist (90850); Environmental Support Specialist (56350); Entomology Specialist (56650)
   Marine Corps: Veterinary Technician (3373); Veterinary Chief (3383)

ADMINISTRATIVE SPECIALIZATIONS

1. USOE Cluster: Business and Office
2. Civilian Title: Chief Clerk II (169.168)
3. Military Titles: (Chief Clerk)
   Army: Administrative Specialist (71L)
   Navy: Yeoman (YN); Personnelman (PN)
   Air Force: Administration Supervisor (70270)
   Marine Corps: Administrative Clerk (0151); Personnel Chief (0182)
   Coast Guard: Yeoman (YN); Storekeeper (SK)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Supervises and coordinates activities of clerical staff of an establishment. Prepares work schedules and expedites workflow. Reviews work performed, prepares employee ratings, and conducts personnel benefit programs. Studies and standardizes procedures to improve efficiency of department. Devises required forms. Establishes and keeps reports suspense system. May establish internal mail distribution plans, suspense controls for administrative actions, reproduction services operation, and keep classified and unclassified files, regulations, circulars, and other publications.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, office practice, public speaking and principles of management.
   b. Physical: None.
   c. Specific: High degree of clerical aptitude. Ability to deal with people.

6. Related Service Jobs:
   Army: Attache Specialist (71S)
   Navy: Medical Administrative Technician (HM-8442)

ADMINISTRATIVE SPECIALIZATIONS

1. USOE Cluster: Business and Office
2. Civilian Title: Manager, Office (169.168)
3. Military Titles: (Office Manager)
   Army: Administrative Specialist (71L); Attache Specialist (71S); Medical Senior Sergeant (91Z); Personnel Senior Sergeant (75Z)
   Navy: Yeoman (YN); Personnelman (PN)
   Air Force: Administration Supervisor (70270)

Marine Corps: Personnel/Administrative Chief (0193)
Coast Guard: Yeoman (YN); Storekeeper (SK)

4. Composite Service Job Statement: Supervises and coordinates activities of personnel in centralized clerical functions of organization. Directs supervisors responsible for other clerical and administration functions. Standardizes office procedures and initiates policy and procedure changes. Directs department operations to prepare and retain records, files and reports in accordance with standards. Plans office layouts and cost reduction programs. Reviews clerical and personnel records to insure their completeness, accuracy and timeliness.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, public speaking, office practices and principles of management.
   b. Physical: None
   c. Specific: High degree of clerical aptitude. Ability to deal with people.

6. Related Service Jobs:
   Navy: Communications Technician (Administrative—CTA); Medical Administrative Technician (HM-8442)
   Air Force: First Sergeant (10090)
   Marine Corps: Administrative Clerk (0151); Personnel Chief (0182)

CONSTRUCTION INSPECTOR

1. USOE Cluster: Construction
2. Civilian Title: Construction Inspector (182.287)
3. Military Titles: (Construction Inspector)
   Army: Combat Engineer Senior Sergeant (12Z)
   Navy: Construction Inspector (EA-5501)
   Air Force: Site Development Superintendent (55390)
   Coast Guard: Damage Controlman (QC: 03)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Inspects and oversees construction of bridges, buildings, dams, highways, and other types of construction work to insure that procedures and materials comply with specifications. Verifies levels, alinement, and elevation of installations, using surveyor's level and transit. Interprets blueprints and specifications for deviations from specified construction procedures to insure compliance with regulations governing construction.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry, trigonometry, mechanical drawing and drafting.
   b. Physical: None.
   c. Specific: Highway construction experience. High degree of spatial aptitude.

6. Related Service Jobs:
   Navy: Engineering Aid (EA); Builder (BU); Master Chief Constructionman (CU)
   Air Force: Programs and Work Control Superintendent (55590)

TRANSPORTATION, COMMUNICATIONS, AND UTILITIES INDUSTRY MANAGERS AND OFFICIALS

1. USOE Cluster: Transportation
2. Civilian Title: Manager, Traffic (184.168)
3. Military Titles: (Embarkation Manager)
   - Army: Movement Specialist (71N)
   - Navy: Naval Control of Shipping Administrative Assistant (9566)
   - Marine Corps: Embarkation Man (0431); Logistics/Embarkation Chief (0491)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Performs various duties incident to planning and executing the movement of personnel, supplies, and equipment by land, sea and air. Checks, verifies and assists in compilation of data and preparation of forms used in planning the movement of troops, supplies and equipment. Supervises the staging, loading and unloading of supplies, and in stowing and securing cargo aboard carrier. Plans and supervises billeting of troops aboard carrier. Coordinates transportation facilities and activities of working parties to assure flow of supplies to and from carrier.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in geometry, physics, public speaking and grammar.
   - b. Physical: None.
   - c. Specific: Ability to express thoughts clearly in writing and speaking.
6. Related Service Jobs:
   - Navy: Quartermaster (QM); Yeoman (YN); Radioman (RM); Signalman (SM)
   - Air Force: Freight Traffic Specialist (60251); Air Cargo Specialist (60551)
   - Coast Guard: Boatswain's Mate (BM); Aviation Survivalman (ASM)

TRANSPORTATION, COMMUNICATIONS, AND UTILITIES INDUSTRY MANAGERS AND OFFICIALS

1. USOE Cluster: Communications and Media
2. Civilian Title: Traffic Chief, Radio Communications (184.168)
3. Military Titles: (Radio Communications Traffic Chief)
   - Army: Area Communications Chief (31Z); Tactical Circuit Controller (31N); Fixed Station Technical Controller (32D)
   - Navy: Communication System Technical Supervisor (RM-2319); Communications Systems Manager (RM-2313); Enlisted Frequency Manager (RM-2301); Communications Technician Supervisors (CT-4801 thru 4897)
   - Air Force: Radio Frequency Management Specialist (29730)
   - Marine Corps: Radio Chief (2537); Operational Communication Chief (2591)
   - Coast Guard: Radioman (RM); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Directs control, operation, and patching of long-distance communications media or local circuits. Controls selection of transmitting, receiving, and terminal equipment; use of cryptographic equipment, including shifts and adjustments; and all equipment on the air. Ensures reliable communications through familiarity with all possible

combinations of antennas, transmitters, receivers, frequencies, and terminal equipment. Conducts circuit and systems performance tests. Ensures that corrective action is taken in case of circuit outages and that control links and landlines are properly used. Manages communications assets applying principles of reliability, security and speed in accordance with doctrinal and procedural publications and through application of proper quality control and traffic management procedures. Coordinates frequencies for use within area of responsibility. Maintains frequency employment files; initiates action as appropriate to prevent and/or correct harmful interference.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electrical theory, physics, algebra, geometry and trigonometry.
   b. Physical: Manual dexterity, good hearing.
   c. Specific: Must be eligible to receive appropriate security clearance. Experience as an amateur or ham radio operator as a hobby.

6. Related Service Jobs:
   Army: Tactical Communications Chief (31C)
   Navy: Radioman (RM); Communications Technician (CT)
   Air Force: Radio Operator (29353); Automatic Digital Switching Specialist (29530)

TRANSPORTATION, COMMUNICATIONS, AND UTILITIES INDUSTRY MANAGERS AND OFFICIALS

1. USOE Cluster: Transportation

2. Civilian Title: Train Dispatcher (184.168)

3. Military Titles: (Train Dispatcher)
   Army: Railway Senior Sergeant (65Z); Railway Movement Coordinator (65K)

4. Composite Service Job Statement: Coordinates railroad traffic on specified section of line from C.T.C. (centralized traffic control) unit that electrically activates track switches and signals. Reads train orders and schedules to familiarize self with scheduled runs, destination of trains, times of arrival and departure, and priority of trains. Moves controls that activate track switches and traffic signals to reroute trains or to signal Locomotive Engineer to stop train or change speed according to traffic conditions. Talks by telephone with Locomotive Engineer, conductor, road freight or passenger car conductor to relay changes in train orders and schedules, and to receive notification of emergency stops, delays, or accidents.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs: None.

TRANSPORTATION, COMMUNICATIONS, AND UTILITIES INDUSTRY MANAGERS AND OFFICIALS

1. USOE Cluster: Transportation

2. Civilian Title: Transportation Supervisor (184.168)

3. Military Titles: (Transportation Director)
   Army: Movement Specialist (71N)
   Air Force: Traffic Management Superintendent (60291); Air Transportation Superintendent (60591)
   Marine Corps: Transportation Chief (3191)

4. Composite Service Job Statement: Directs office staff in coordinating transportation activities of military installations. Interprets regulations and directives from higher headquarters. Initiates local policies concerning movement of personnel and government and personal property to and from base. Compares services of common carriers to insure transportation requirements are met at most equitable rates. Oversees preparation of records. Assigns duties to office personnel.

5. Desirable Qualifications Summary:
   a. Academic Background: Mathematics and algebra.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Storekeeper (SK); Naval Control of Shipping Administrative Assistant (9566)
   Coast Guard: Storekeeper (SK)

WHOLESALE AND RETAIL TRADE MANAGERS AND OFFICIALS

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Manager, Store I (185.168)

3. Military Titles: (Store Manager)
   Navy: Navy Exchange Manager (SH-3111); Commissary Store Manager (SK-2813)
   Air Force: Supply Services Supervisor (61170)
   Marine Corps: Exchange Chief (4191)
   Coast Guard: Subsistence Specialist (SS)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Manages retail store, performing following duties personally or through subordinates. Hires, trains, and discharges employees. Plans work schedules and supervises workers to insure efficient and productive performance of job. Prepares purchase orders or requisitions for stock. Coordinates sales promotion activities, approves advertising and display work, takes and verifies inventories, handles receipts, and compiles and analyzes various reports. Insures that store security policies are enforced.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in practical mathematics, algebra, accounting, and bookkeeping.
   b. Physical: None.
   c. Specific: Good handwriting or printing ability.

6. Related Service Jobs:
   Army: Subsistence Storage Specialist (76X)
   Navy: Ship's Serviceman (SH); Storekeeper (SK)

SERVICE INDUSTRY MANAGERS AND OFFICIALS

1. USOE Cluster: Hospitality and Recreation
2. Civilian Title: Manager, Night Club (187.168)
3. Military Titles: (Club Manager)
   Army: Club Manager (00J)
   Navy: Closed Mess Manager (MS-3513)
   Air Force: Steward Specialist (74250)
   Marine Corps: Club Manager/Treasurer (4132)
   Coast Guard: Subsistence Specialist (SS-06)

4. Composite Service Job Statement: Plans and organizes activities, including food and beverage services, merchandise sales, entertainment and recreational facilities. Supervises planning, purchase, receipt, storage and utilization of food stuffs, beverages and other supplies. Supervises preparation of activity reports, menus, financial statements and budgetary estimates. Supervises and assists in programing and planning protocol and social functions held in clubs. May oversee business management aspects of the club to include alcoholic beverage stores, swimming pool, hotel or motel operation. Prepares reports on club operations.

5. Desirable Qualifications Summary:
   a. Academic Background: High school graduate (Marine Corps, Air Force).
   b. Physical: None
   c. Specific: Ability to use numbers in solving practical problems. High standards of honesty and cleanliness.

6. Related Service Jobs:
   Navy: Mess Management Specialist (MS)

SERVICE INDUSTRY MANAGERS AND OFFICIALS

1. USOE Cluster: Hospitality and Recreation
2. Civilian Title: Manager, Recreation Establishment (187.168)
3. Military Titles: (Recreation Facilities Manager)
   Army: Special Services Senior Sergeant (03Z)
   Air Force: Special Services Supervisor (74171)

4. Composite Service Job Statement: Manages affairs of recreational establishment and develops special services programs such as entertainment, sports, arts and crafts, outdoor recreation, youth activities, and library programs. Plans and coordinates Special Services activities at Rest and Recuperation Centers. Compiles data for Special Services budgetary statements and fund requests.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination (Army).
   c. Specific: None.

6. Related Service Jobs:
   Navy: Physical Training Instructor (9503)
   Marine Corps: Athletic and Recreation Assistant (8921)

RADIO OPERATORS

1. USOE Cluster: Public Service
2. Civilian Title: Air-Traffic-Control Specialist, Center (193.168)
3. Military Titles: (Air Traffic Control Center Operator)
   - Army: Air Traffic Control/Approach Control/Enroute Specialist (93K)
   - Navy: Radar Air Controllers (OS-0313 thru 0319); Air Controlman (AC)
   - Air Force: Air Traffic Control Specialist—Air Route Traffic Control Center (27250C)
   - Marine Corps: Air Traffic Controller—Radar (7322); Air Traffic Controller (7324)
   - Coast Guard: Air Controlman (QC: AC)
4. Composite Service Job Statement: Controls air traffic within designated sector of airspace between centers and beyond airport control tower area according to established procedures and policies to prevent collisions and to minimize delays arising from traffic congestion: Transfers control of flights to and accepts control of flights from Air-Traffic-Control Specialist, Tower, and from other centers, using telephone or interphone. Alerts airport emergency crew and other designated personnel by radio or telephone when airplanes are having flight difficulties. Operates radio and monitors radarscope to control aircraft operating in center sector of responsibility.
5. Desirable Qualifications Summary:
   - a. Academic Background: Course in public speaking, algebra, geometry, trigonometry and electrical theory.
   - b. Physical: Normal color discrimination. Good speaking voice.
   - c. Specific: May be required to possess appropriate security clearance. Must be able to pass FAA Class II physical examination. High degree of accuracy, precision, self reliance and calmness under stress.
6. Related Service Jobs:
   - Army: ATC Tower Operator (93H); ATC Ground Control Approach (GCA) Specialist (93J)
   - Navy: Operations Specialist (OS)
   - Air Force: Air Traffic Control Specialist—Conventional Control Tower (27250A); Air Traffic Control Specialist—Ground Controlled Approach (27250B); Air Traffic Control Specialist—Combat Control Team Operations (27250D)
   - Marine Corps: Air Traffic Controller—Tower (7312)
   - Coast Guard: Radarman (RD); Aviation Electrician's Mate (AE)

RADIO OPERATORS

1. USOE Cluster: Public Service
2. Civilian Title: Air-Traffic-Control Specialist, Tower (193.168)
3. Military Titles: (Air Traffic Controller)
   - Army: ATC Ground Control Approach (GCA) Specialist (93J); Air-Traffic Control (ATC) Tower Operator (93H), Air-Traffic Control Chief (93L); ATC Approach Control/Enroute Specialist (93K)

Navy: Air Controlman (AC); Carrier/Ground Controlled Approach Controllers (AC-6911-6912 and 6922)

Air Force: Air Traffic Control Specialist—Combat Control Team Operations (27250D); Air Traffic Control Specialist—GCA (27250B); Air Traffic Control Specialist —Conventional Control Tower (27250A)

Marine Corps: Air Traffic Controller—Tower (7312); Air Traffic Controller—Radar (7322); Air Traffic Controller (7324)

Coast Guard: Radarman (RD); Air Controlman (QC: AC)

4. Composite Service Job Statement: Operates radio or radar to control air traffic on and within vicinity of airport or aircraft carrier according to established procedures and policies to prevent collisions and to minimize delays arising from traffic congestion. Answers radio calls from arriving and departing aircraft and issues such landing and take-off instructions and information as runway to use, wind velocity and direction, visibility, taxiing instructions and pertinent data on other aircraft operating in vicinity. May receive cross-country flight plans and transmit them to air traffic control center.

5. Desirable Qualifications Summary:

a. Academic Background: Shop course in radio electricity, algebra, geometry and trigonometry.

b. Physical: Normal color discrimination. Clear speech and auditory acuity.

c. Specific: Must be able to pass FAA Class II Physical Examination. High degree of accuracy, precision, self reliance and calmness under stress. Must be eligible to receive appropriate security clearance (Air Force).

6. Related Service Jobs:

Navy: Operation Specialist (OS)

Air Force: Air-Traffic Control Operator, ARTCC (27250C)

RADIO OPERATORS

1. USOE Cluster: Communication and Media

2. Civilian Title: Radio Officer (193.282)

3. Military Titles: (Radioman)

Navy: Radioman (RM); Communications Technician (Collection) (CTR); Satellite Communications Operator/Supervisors (RM 2305, 2368, 2369); Special Fixed Communication System Operator (RM 2393); Communication System Technical Operator (RM-2318); Communications System Operators (CT-48QA thru 48QI)

Coast Guard: Radioman (RM)

4. Composite Service Job Statement: Operates and keeps in repair radiotelegraph and radiotelephone equipment and accessories aboard ship; turns on power to activate generator and throws switches to cut in transmitters and antennas. Turns dials to obtain sending frequency and volume. Receives and transmits messages following procedure prescribed by federal regulations. Maintains log of messages transmitted and received. Monitors emergency frequency for ship and distress calls. Performs minor repairs and adjustments on ship's radio equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Physics, electricity, communications, electrical theory and office practices.
   b. Physical: Normal hearing. Clear speaking voice. High degree of manual dexterity.
   c. Specific: Amateur ham radio experience. Must be eligible for appropriate security clearance.
6. Related Service Jobs:
   Navy: Communications Technician (Collections)—CTO; Communications Technician (Technical)—CTT

RADIO OPERATORS

1. USOE Cluster: Communication and Media
2. Civilian Title: Radiotelegraph Operator (193.282)
3. Military Titles: (Radio Telegraph Operator)
   Army: Radio Teletype Operator (05C); Radio Teletypewriter Operator (Non-Morse) (05F)
   Navy: Radioman (RM)
   Air Force: Radio Operator (29353)
   Marine Corps: Radio Telegraph Operator (2533); Airborne Radio Operator (7382)
   Coast Guard: Radioman (RM); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Operates equipment used in radiotelegraph communications. Watches frequency lights on receiver to ascertain if station is being called. Presses toggle switch that sets receiver to frequency when call is indicated. Opens circuit and manipulates key to acknowledge call. Listens to telegraph signal, types message on form. Manipulates key to call ships or stations by code and to send messages after acknowledgement. May repair equipment. May operate equipment on board aircraft. May code or decode messages with cryptographic devices.

5. Desirable Qualifications Summary:
   a. Academic Background: Physics, electricity, and communications.
   b. Physical: None.
   c. Specific: Must demonstrate aptitude for learning radio code. May require appropriate security clearance.
6. Related Service Jobs:
   Navy: Intermediate Radio Operator (RM-2304)
   Air Force: Communications Center Specialist (29150)

RADIO OPERATORS

1. USOE Cluster: Communication and Media
2. Civilian Title: Radiotelephone Operator (193.282)
3. Military Titles: (Field Radio Operator)
   Army: Radio Operator (05B); Voice Radio Operator (0[illegible]
   Marine Corps: Field Radio Operator (2531); Microwave Equipment Operator (2532); High Frequency Communications Central Operator (2534); Radio Chief (2537)
   Coast Guard: Radioman (RM); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Sets up field radio equipment such as FM, HF, UHF, and VHF radios to transmit messages by voice. Throws switches to cut in power to stages of transmitter. Turns controls to adjust voice volumes and modulation, and to set transmitter on specified frequency. Conducts routine tests using electronic testing equipment and hand and power tools to maintain communication system in operative condition. Activates and charges storage batteries. May drive communication vehicles.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, physics, electricity, and communications.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Radioman (RM)
   Air Force: Radio Operator (29353)
   Marine Corps: Radio Telegraph Operator (2533)

SOUND RECORDING, TRANSCRIBING, AND REPRODUCTION

1. USOE Cluster: Communication and Media

2. Civilian Title: Sound Mixer (194.282)

3. Military Titles: (Audiovisual Sound Mixer)
   Army: Audio Specialist (84D)
   Navy: Motion Picture Sound Transmission and Recording Engineer (PH-8149)
   Air Force: Audiovisual Media Specialist, Sound (23150B)

4. Composite Service Job Statement: Operates and performs maintenance on sound reinforcement and distribution systems, magnetic tape recording and television audio and motion picture sound recording equipment, including public address systems. Assembles, sets up, positions and interconnects equipment such as microphones and amplifiers for use in sound pickup. May copy and edit recordings. May repair and replace audio amplifier parts. Instructs in techniques of speaking before camera and microphones.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in physics and chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Monochrome TV Technician (9574); Photographer's Mate (PH)
   Coast Guard: Electronics Technician (ET)

SOCIAL AND WELFARE WORK

1. USOE Cluster: Public Service

2. Civilian Title: Case Aid (195.208)

3. Military Titles: (Case Worker)
   Army: Behavioral Sciences Specialist (91G)
   Air Force: Psychiatric Clinic Specialist (91450)

4. Composite Service Job Statement: Performs subprofessional tasks involved in administering standard psychological tests; obtains information for social histories of individuals refered to psychiatric service and assists patients in carrying out recommendations of professional staff. Schedules appointments for clinic and psychological testing. Gives patients instructions for taking tests in accordance with standard test manual, utilizing techniques of psychological testing and scoring. Computes scores in accordance with established procedures. Prepares preliminary reports for clinical psychologist, indicating results obtained. Counsels patients on recreational, occupational and educational programs. Interviews patients and examines military and other records to obtain patients' social or medical history.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in hygiene, biology, psychology, sociology and physiology.
   b. Physical: No record of emotional instability.
   c. Specific: None

6. Related Service Jobs:
   Navy: Neuropsychiatric Technician (HM-8485); Hospital Corpsman (HM)
   Air Force: Psychiatric Ward Specialist (91451)
   Coast Guard: Hospital Corpsman (HM)

SOCIAL AND WELFARE WORK

1. USOE Cluster: Hospitality and Recreation

2. Civilian Title: Recreation Leader (195.228)

3. Military Titles: (Recreation Specialist)
   Army: Physical Activities Specialist (03C)
   Air Force: Athletic Specialist (74150)
   Marine Corps: Athletic and Recreation Assistant (8921)

4. Composite Service Job Statement: Plans, develops, and conducts athletic programs. Supervises athletic competitions; arranges for coaches and officials' clinics and supervised athletic instruction. Promotes and publicizes athletic programs.

5. Desirable Qualifications Summary:
   a. Academic Background: Physical education courses.
   b. Physical: None
   c. Specific: Aptitude and interest in athletics and sports.

6. Related Service Jobs:
   Air Force: Recreation Specialist (74151)

AIRPLANE PILOTS AND NAVIGATORS

1. USOE Cluster: Transportation

2. Civilian Title: Navigator (196.188)

3. Military Titles: (Aerial Navigator)
   Navy: Crewman/Navigator (8254)
   Marine Corps: Aerial Navigator (7372)

4. Composite Service Job Statement: Locates position and directs course of airplane, using navigational aids such as, charts, maps, sextant and slide rule. Establishes position of airplane by use of navigational instruments and charts, celestial observation or dead reckoning. Directs deviations from course required by weather conditions such as wind drifts and forecasted atmospheric changes. Utilizes navigational aids, such as radio beams and beacons, when available. Keep a log of flight.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, chemistry, algebra and geometry.
   b. Physical: Must be physically qualified to function as a member of an aircrew.
   c. Specific: None

6. Related Service Jobs:
   Coast Guard: Aviation Electronics Technician (AT)

SHIP CAPTAIN, MATES, PILOTS AND ENGINEERS

1. USOE Cluster: Transportation
2. Civilian Title: Engineer (197.130)
3. Military Titles: (Steam-Generating Plant Supervisors)
   Navy: 1200 PSI Steam-Generating Plant Supervisors (BT-4517 thru 4521)

4. Composite Service Job Statement: Supervises and coordinates activities of crew engaged in operating and maintaining boilers aboard ship: Inspects equipment and orders crew to repair or replace defective parts. Stands engineroom watch during specified periods, observing that required water levels are maintained in boilers, condensers, and evaporators, load on generators is within acceptable limits, and oil and grease cups are kept full. Repairs machinery, using handtools and power tools. Maintains engineering log and bell book (orders for changes in speed and direction of ship).

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, physics and shop.
   b. Physical: Normal color discrimination.
   c. Specific: Skill in working with handtools and power tools. Ability to work under conditions of extreme heat.

6. Related Service Jobs:
   Navy: Boiler Technician (BT)

SHIP CAPTAIN, MATES, PILOTS AND ENGINEERS

1. USOE Cluster: Transportation
2. Civilian Title: Pilot, Ship (197.133)
3. Military Titles: (Ship's Pilot)
   Navy: Harbor/Docking Pilot (QM-0215); River/Docking Pilot (QM-0216)

4. Composite Service Job Statement: Pilots ships to steer craft into and out of harbors, straits and sounds, and on rivers, lakes and bays. Directs course and speed of ship on basis of specialized knowledge of local

winds, weather, tides and current. Orders worker at helm to steer ship, and navigates ship to avoid reefs, outlying shoals and other hazards to shipping, utilizing aids to navigation such as lighthouses and buoys. Signals tugboat captain to berth and unberth ship.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in geometry, physics and public speaking.
   b. Physical: None
   c. Specific: Ability to express thoughts clearly by speaking or writing.

6. Related Service Jobs:
   Army: Watercraft Operator (61B)
   Navy: Boatswain's Mate (BM); Quartermaster (QM); Tugmaster (BM-0161)
   Coast Guard: Boatswain's Mate (BM); Quartermaster (QM)

SHIP CAPTAIN, MATES, PILOTS AND ENGINEERS

1. USOE Cluster: Transportation

2. Civilian Title: Tugboat Captain (197.133)

3. Military Titles: (Tugboat Captain)
   Army: Marine Senior Sergeant (61Z); Watercraft Operator (61B)
   Navy: Tugmaster (BM-0161)
   Coast Guard: Boatswain's Mate (BM) (QC: D4)

4. Composite Service Job Statement: Operates tugboat to tow barges and ships into and out of harbors, straits and sounds, and on rivers, lakes and bays. Determines course and towing speed on basis of specialized knowledge of winds, weather, tides and current. Plots courses on navigation charts and computes positions using standard navigational aids such as compass, sextant, clock, radio fix and navigation tables. Steers vessel and operates electronic equipment such as radio, fathometer and radar.

5. Desirable Qualifications Summary:
   a. Academic Background: Algebra, geometry and shop.
   b. Physical: High degree of manual dexterity. Normal color discrimination.
   c. Specific: High degree of self reliance and leadership ability.

6. Related Service Jobs:
   Navy: Boatswain's Mate (BM); Quartermaster (QM); Yard Craft Boat Captain (BM-0162); Minesweeper Boat Captain (BM-0163)

MISCELLANEOUS PROFESSIONAL, TECHNICAL AND MANAGERIAL

1. USOE Cluster: Public Service

2. Civilian Title: Keeler-Polygraph Operator (199.268)

3. Military Titles: (Polygraph Operator)
   Marine Corps: Polygraph Examiner (5822)
   Coast Guard: Polygraph Operator (QC: PO)

4. Composite Service Job Statement: Interrogates and screens personnel using polygraph (lie detector). Attaches apparatus to individual to measure and record changes in respiration, blood pressure and electrical resistance of skin as a result of perspiration changes. Determines normal level of responses by examining results of individual's reactions to questions as recorded on moving chart.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: Must be 21 years of age and U.S. citizen (Marine Corps). Must be 25 years of age and U.S. citizen (Coast Guard).
   c. Specific: None
6. Related Service Jobs: None

MISCELLANEOUS PROFESSIONAL, TECHNICAL AND MANAGERIAL

1. USOE Cluster: Public Service
2. Civilian Title: Cryptanalyst (199.288)
3. Military Titles: (Cryptanalyst)
   Army: EW/Cryptanalytic Cryptanalyst (98B); EW/Cryptologic Traffic Analyst (98C); EW/Cryptologic Interceptor-Voice (98G) EW/Cryptologic Interceptor Analyst Noncommunications (98J); EW/Cryptologic Operations Chief (98Z); EW/Cryptologic Special Identification Operator (05D); EW/Cryptologic Signal Security Specialist (05G); EW/Cryptologic Interceptor-Morse (05H); EW/Cryptologic Interceptor-Teletypewriter (05K)
   Navy: Communications Technician (Technical) (CT-48AA-48AJ, 48BA-48BD, 48CA-48CM, 48MA-48ME); Communications Technician Cryptologic Operator/Analyst (8295); Communications Technician (Technical) (CTT)
   Air Force: Radio Communications Analyst Specialist (20250); Voice Processing Specialist (20331)
   Marine Corps: Cryptanalyst (2649)
   Coast Guard: Communication Security Equipment Operator (QC: 03)
4. Composite Service Job Statement: Monitors and analyzes classified coding systems and decodes messages for military and law enforcement agencies. Specific duties are of a classified nature.
5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, English, office machines, physics and electricity.
   b. Physical: None.
   c. Specific: Talent for detail. High degree of adaptability. Must be eligible to receive appropriate security clearance.
6. Related Service Jobs: None

MISCELLANEOUS PROFESSIONAL, TECHNICAL AND MANAGERIAL

1. USOE Cluster: Transportation
2. Civilian Title: Radiographer (199.381)
3. Military Titles: (Radiographer)
   Navy: Gamma/X-ray Radiographer/Inspector (HT-4932-4933); UT Operator/Inspector (HT-4934); NDT Inspector (Nuclear) (HT-4935); Aircraft Structural Nondestruct Inspector (AM-7225)
   Air Force: Non-Destructive Inspection Specialist (53650)
   Marine Corps: Aircraft Non-Destructive Testing Supervisor (6044)

4. Composite Service Job Statement: Controls radiography equipment to test metal, and structural and engine components. Aligns objects on stand between source of X-rays and film of plate manually, or using hand or electric truck, chain hoist or crane. Takes radiograph by adjusting controls of X-ray machine or by exposing source of radioactivity. Removes and develops film or plate. Monitors working area using survey meters to protect personnel area. Marks defects appearing on film and assists in analyzing findings. Provides for safekeeping of equipment, tools and materials.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry, physics and chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: High degree of mechanical aptitude.

6. Related Service Jobs:
   Navy: Hull Maintenance Technician (HT); Aviation Structural Mechanic (Structures) (AMS)
   Coast Guard: Aviation Structural Mechanic (AM)

MISCELLANEOUS PROFESSIONAL, TECHNICAL AND MANAGERIAL

1. USOE Cluster: Public Service

2. Civilian Title: Decontaminator (199.885)

3. Military Titles: (Decontamination Man)
   Army: Chemical Operations Assistant (54A); Decontamination Specialist (54B)
   Navy: Radiac Technician (9597)
   Air Force: Disaster Preparedness Specialist (24250)
   Marine Corps: Nuclear, Biological and Chemical Defense Specialist (5711)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Decontaminates radioactive materials and equipment using chemical solutions. Performs standard tests to determine type, degree and extent of contamination. Determines type and amount of decontaminating agent and equipment needed to decontaminate area. May monitor equipment, plant area and materials, using radiation detectors such as portable gamma survey meter and geiger counters. Maps contaminated and decontaminated area for use in tactical operations.

5. Desirable Qualifications Summary:
   a. Academic Background: Chemistry and practical mathematics.
   b. Physical: None
   c. Specific: High degree of mechanical ability.

6. Related Service Jobs:
   Navy: Disaster Control Specialist (9598); Hull Maintenance Technician (HT)

TAB 2

CLERICAL AND SALES OCCUPATIONS

This category includes occupations concerned with preparing, transcribing transferring, systematizing, and preserving written communications and records; collecting accounts; distributing information; and influencing customers in favor of a commodity or service. Includes occupations closely identified with sales transactions even though they do not involve actual participation.

SECRETARIES

1. USOE Cluster: Business and Office

2. Civilian Title: Legal Secretary (201.368)

3. Military Titles: (Legal Secretary)
   Army: Legal Clerk (71D)
   Navy: Legal Clerk (YN-2516); Legalman (LN)
   Air Force: Legal Services Specialist (70550)
   Marine Corps: Legal Services Man (4421)
   Coast Guard: Yeoman (YN) (QC: 02)

4. Composite Service Job Statement: Prepares legal correspondence, records, and related papers, such as courts-martial, courts of inquiry, investigations and military commissions or conferences, utilizing knowledge of Uniform Code of Military Justice, Manual for Courts-Martial United States, Manual of the Judge Advocate General and other administrative manuals and publications.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in typing.
   b. Physical: None
   c. Specific: Ability to work harmoniously with others. Aptitude for close and detailed work.

6. Related Service Jobs:
   Army: Court Reporter (71E)
   Navy: Yeoman (YN); Closed Microphone Court Reporter (YN-2511); Stenographic Court Reporter (YN-2513)
   Marine Corps: Personnel Clerk (0121); Administrative Clerk (0151)

STENOGRAPHERS

1. USOE Cluster: Business and Office

2. Civilian Title: Court Reporter (202.388)

3. Military Titles: (Court Reporter)
   Army: Court Reporter (71E)
   Navy: Closed Microphone Court Reporter (YN-2511); Legalman (LN); Stenographic Court Reporter (YN-2513)
   Air Force: Legal Services Specialist (70550)
   Marine Corps: Legal Services Reporter (4422); Legal Services Reporter (4423)
   Coast Guard: Yeoman (YN)

4. Composite Service Job Statement: Performs recording duties at courts-martial, courts of inquiry, investigations and conferences using stenomask, closed microphone, or manual recording techniques. Reads back any portion of verbatim notes as required during proceedings. Makes identification marks on material and identifies participants, prepares and assembles records and forms associated with legal proceedings.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in commercial law, typing and English.
   b. Physical: Clear speaking voice.
   c. Specific: Ability to work harmoniously with others. Aptitude for detailed work.

6. Related Service Jobs:
   Navy: Yeoman (YN)
   Air Force: Stenographic Specialist (70450)

STENOGRAPHERS

1. USOE Cluster: Business and Office

2. Civilian Title: Stenographer (202.388)

3. Military Titles: (Stenographer)
   Army: Stenographer (71C)
   Navy: Staff Writer (YN-2512); Flag Officer Writer (YN-2514)
   Air Force: Stenographic Specialist (70450)

4. Composite Service Job Statement: Takes and transcribes dictation of administrative communications, reports, directives, telephone conversations and other information of which a record is desired. Records proceedings of conferences, staff meetings and committees by shorthand or steno-type. Prepares correspondence and performs related clerical and administrative duties.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shorthand, business communications, typing, and English.
   b. Physical: None
   c. Specific: Ability to work harmoniously with others. Aptitude for detailed work.

6. Related Service Jobs:
   Army: Court Reporter (71E)
   Navy: Yeoman (YN)
   Air Force: Legal Services Specialist (70550)
   Coast Guard: Yeoman (YN)

TYPISTS

1. USOE Cluster: Communications and Media

2. Civilian Title: Telegraphic-Typewriter Operator, Chief (203.138)

3. Military Titles: (Communications Center Supervisor)
   Army: Telecommunications Center Specialist (72E)
   Navy: Communications Systems Manager (RM-2313)
   Air Force: Communications Center Supervisor (29170)
   Marine Corps: Communications Center Chief (2549)
   Coast Guard: Radioman (RM)

4. Composite Service Job Statement: Supervises the duties of personnel engaged in operating all equipment in a communications center. Assigns work, establishes routine. Supervises maintenance of all logs and files.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, physics and electricity.
   b. Physical: Normal color discrimination.
   c. Specific: Must be eligible to receive appropriate security clearance. Aptitude for learning code.

6. Related Service Jobs:
   Army: Data Communications Switching Center Specialist (72G)
   Navy: Communications Technician (Technical) (CTT); Radioman (RM); Communications Technician (Collection) (CTR); Communications Technician (Communications) (CTO)

TYPISTS

1. USOE Cluster: Communication and Media

2. Civilian Title: Telegraphic-Typewriter Operator (203.588)

3. Military Titles: (Teletype Operator)
   Army: Telecommunications Center Specialist (72E)
   Navy: Radioman (RM); Communications Technician (Technical) (CTT)
   Air Force: Communications Center Specialist (29150)
   Marine Corps: Communications Center Man (2542)
   Coast Guard: Radioman (RM)

4. Composite Service Job Statement: Operates teletypewriter and performs functions in connection with the acceptance, logging, preparation, transmission, receipt, and delivery of messages. Inspects incoming and outgoing messages for proper classification, precedence, and readability, according to specified method of transmission. Carries out preventive maintenance on communications center equipment. Advises superiors on capabilities, limitations, and condition of assigned equipment. May perform crytographic duties.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, mathmetics, electricity/electronics, and typing.
   b. Physical: Normal color discrimination.
   c. Specific: Must be eligible for appropriate security clearance. Aptitude for learning radio code.

6. Related Service Jobs:
   Army: Data Communications Switching Center Specialist (72G)
   Navy: Communications Technician (Communications) (CTO); Communications Technician (Collection) (CTR)
   Air Force: Automatic Digital Switching Specialist (29530)

PERSONNEL CLERKS

1. USOE Cluster: Business and Office

2. Civilian Title: Travel Clerk (205.168)

3. Military Titles: (Clerk)
   Army: Movements Specialist (71N)
   Marine Corps: Passenger Transportation Clerk (3141)

4. Composite Service Job Statement: Performs technical traffic duties pertaining to movement of civilian and military personnel, their dependents, individuals, groups, or military troop movements. Plans itinerary for and schedules troop movements in the continental United States and in foreign countries using knowledge of all modes of transportation. Notifies personnel of travel dates, baggage limits, and medical/visa requirements, and determines that all clearances have been obtained.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing.
   b. Physical: None
   c. Specific: None

6. Related Service Jobs:
   Navy: Personnelman (PN); Yeoman (YN); Personal Property Specialist (SK-2819)
   Air Force: Passenger and Household Goods Specialist (60250); Personnel Specialist (73250)
   Marine Corps: Freight Transportation Clerk (3121)
   Coast Guard: Storekeeper (SK)

PERSONNEL CLERKS

1. USOE Cluster: Business and Office

2. Civilian Title: Personnel Clerk (205.368)

3. Military Titles: (Clerk)
   Army: Unit Clerk (75B); Personnel Management Specialist (75C); Personnel Records Specialist (75D); Personnel Actions Specialist (75E)
   Navy: Personnelman (PN); Enlisted Personnel Administrationman (YN 2526); Officer Personnel Administrationman (PN 2625)
   Air Force: Personnel Specialist (73250)
   Marine Corps: Personnel Clerk (0121); Unit Diary Clerk (0131)
   Coast Guard: Yeoman (YN)

4. Composite Service Job Statement: Maintains service records and posts information such as marital status, promotions, training, assignment restrictions, awards, decorations, and test results using typewriter. Compiles personnel data and utilizes personnel management products. Reviews records and verifies source documents with the individual concerned. Plans separation and reenlistment procedures for military personnel and prepares separation and reenlistment forms. Compiles and routes efficiency reports utilizing knowledge of administrative transmittal procedures.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business administration, typing and English.
   b. Physical: None.
   c. Specific: Ability to deal with people. High degree of clerical aptitude.

6. Related Service Jobs:
   Navy: Yeoman (YN); Communications Technician-Administrative (CTA)
   Air Force: Personal Affairs Specialist (73251); Personnel Systems Management Specialist (73233); Career Advisor Specialist (73234)
   Marine Corps: Administrative Clerk (0151); Personnel Chief (0182); Personnel/Administrative Chief (0193)

MISCELLANEOUS OFFICE MACHINE OPERATORS

1. USOE Cluster: Communications and Media
2. Civilian Title: Cryptographic-Machine Operator (208.588)
3. Military Titles: (Telecommunications Machine Operator)
   Army: Telecommunications Center Specialist (72E)
   Navy: Communications Technician (Communications) (CTO)
   Air Force: Communications Center Specialist (29150)
   Marine Corps: Special Intelligence Communications Center Operator (2651); Special Intelligence Communications Center Supervisor (2659)
   Coast Guard: Radioman (RM)

4. Composite Service Job Statement: Operates cryptographic equipment to code, transmit, and decode classified messages. Performs administrative duties required to process accounting documents to receive, transfer, issue, ship and destroy cryptographic material. Reviews copy of decrypted messages for security and procedure violations. Resolves garbled or undecipherable messages using cryptographic procedures and equipment or requests retransmission of message. In all branches of the Armed Forces information as to additional duties of personnel in these jobs is released on an individual need-to-know basis.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, mathematics, electricity and electronics, and typing.
   b. Physical: Normal color discrimination.
   c. Specific: Must be eligible to receive appropriate security clearance.
6. Related Service Jobs:
   Air Force: Data Communications Switching Center Specialist (72G)
   Navy: Radioman (RM); Communications Technician (Technical) (CTT); Communications Technician (Collection) (CTR)
   Air Force: Automatic Digital Switching Specialist (29530)
   Marine Corps: Communications Center Chief (2549)

STENOGRAPHY, TYPING, FILING AND RELATED

1. USOE Cluster: Business and Office
2. Civilian Title: Clerk-Typist (209.588)
3. Military Titles: (Clerk)
   Army: Clerk Typist (71B)
   Navy: Yeoman (YN); Personnelman (PN); Communications Technician (Administrative) (CTA)

Air Force: Administration Specialist (70250)
Marine Corps: Administrative Clerk (0151); Logistics Man (0441)
Coast Guard: Yeoman (YN); Storekeeper (SK)

4. Composite Service Job Statement: Performs general clerical work requiring use of typewriter in majority of duties. Compiles and types reports, bills, application forms, shipping tickets, and other matter from clerical records. Files records and reports, posts information to records, sorts and distributes mail, answers telephone, and performs similar duties. Computes amounts using adding machine.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in typing.
   b. Physical: None
   c. Specific: Aptitude for detailed work.

6. Related Service Jobs:
   Army: Unit Clerk (75B); Administrative Specialist (71L)
   Navy: Communications Technician (CT)

BOOKKEEPERS

1. USOE Cluster: Business and Office

2. Civilian Title: Bookkeeper I (210.388)

3. Military Titles: (Bookkeeper)
   Army: Finance Specialist (73C)
   Navy: Storekeeper (SK)
   Air Force: General Accounting Specialist (67151)
   Marine Corps: Bookkeeper (4111)
   Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Maintains bookkeeping records and analyzes and verifies financial records. Examines transactions, determines correct entry and records data in books, subsidiary ledgers and on other bookkeeping forms, checking and verifying entries. May compute salaries and social security withholding and tax deductions.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in accounting, bookkeeping and commercial arithmetic.
   b. Physical: None
   c. Specific: Good handwriting or printing ability.

6. Related Service Jobs:
   Army: Accounting Specialist (73D)
   Navy: Aviation Storekeeper (AK)
   Air Force: Budget Specialist (67230)
   Coast Guard: Subsistence Specialist (SS)

CASHIERS

1. USOE Cluster: Business and Office
2. Civilian Title: Cashier I (211.368)
3. Military Titles: (Cashier)
   Army: Accounting Specialist (73C)
   Marine Corps: Exchange Man (4131)
4. Composite Service Job Statement: Receives funds from customers and employees, disburses funds, and records monetary transactions incidental to conduct of business.
5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Navy: Ship's Serviceman (SH)
   Air Force: Supply Services Specialist (61150)

AUTOMATIC DATA-PROCESSING-EQUIPMENT OPERATOR

1. USOE Cluster: Business and Office
2. Civilian Title: Supervisor, Computer Operations (213.138)
3. Military Titles: (Computer Operations Supervisor)
   Army: Data Processing Noncommissioned Officer (74Z)
   Navy: Data Processing Installation Supervisor (DP-2775)
   Air Force: Computer Operations Supervisor (51170)
   Marine Corps: Data Systems Operation Chief (4093)
   Coast Guard: Computer Programmer (QC: GG)
4. Composite Service Job Statement: Supervises and coordinates activities of workers who operate electronic-data processing machines. Directs training or trains personnel in operation of computers and peripheral and off-line auxiliary equipment. Schedules personnel workloads and duty assignments. Establishes work priorities. Analyzes records and reports of production, operating time, and down time of data processing equipment to determine operation effectiveness. Plans, organizes, and conducts technical inspections. Makes recommendations for acquisition, replacement, or discontinuance of equipment.
5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, bookeeping, accounting and business machine operation. Advanced courses in data processing.
   b. Physical: Normal color discrimination.
   c. Specific: Clerical and mechanical aptitude.
6. Related Service Jobs:
   Navy: Data Processing Technician (DP)
   Air Force: Programming Technician (51171)
   Marine Corps: Computer Operator (4024, 4026, 4033, 4034, 4036, 4044)

AUTOMATIC DATA-PROCESSING-EQUIPMENT OPERATOR

1. USOE Cluster: Business and Office

2. Civilian Title: Supervisor, Machine-Records Unit (213.138)

3. Military Titles: (Machine Records Unit Supervisor)
   Army: Automatic Data Processing Systems Machine Operations Specialist (74D)
   Navy: Systems Operation Technician (DP-2711)
   Air Force: Accounting and Finance Supervisor (67170)
   Marine Corps: Electric Accounting Machine Operator (4014); Aviation Supply Man (3072)

4. Composite Service Job Statement: Supervises and coordinates the activities of personnel engaged in the operation of electrical accounting machines and auxiliary electronic computer equipment. Supervises operations functions which include manpower utilization, job scheduling, equipment utilization, librarian functions, procedure documentation, and reports distribution. Assists in diagnosis and correction of unusual or complex malfunctions of accounting machines. Advises subordinate machine operators in handling unusual and difficult machine operations and maintenance.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, bookkeeping, accounting and business machine operation. Supervisory level course in electrical accounting machine operations.
   b. Physical: Normal color perception.
   c. Specific: Clerical and mechanical aptitude.

6. Related Service Jobs:
   Army: Data Processing Noncommissioned Officer (74Z)
   Navy: Data Processing Technician (DP)
   Air Force: Computer Operations Supervisor (51170)
   Marine Corps: Data Systems Operation Chief (4093)

AUTOMATIC DATA-PROCESSING-EQUIPMENT OPERATOR

1. USOE Cluster: Business and Office

2. Civilian Title: Computer-Peripheral-Equipment Operator (213.382)

3. Military Titles: (Computer Operator)
   Army: ADPS Machine Operations Specialist (74D); Computer Systems Operator (74E)
   Navy: Ocean Systems Technician (OT); Data Processing Technician (DP); Ocean Systems Operators/Technicians (OT—0613, 0622, 0623 and 0631)
   Air Force: Computer Operator (51150); Automatic Digital Switching Technician (29530)
   Marine Corps: Off-Line Equipment Operator (4015)
   Coast Guard: Computer Operator (QC: G4)

4. Composite Service Job Statement: Operates on-line or off-line peripheral machines, according to instructions, to transfer data from one form to another, print output, and read data into and out of digital computer. Operates electronic computer console and auxiliary equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: Must be eligible for appropriate security clearance. Ability to perform detailed and repetitive work and ability to work with numbers.

6. Related Service Jobs:
   Army: Data Communications Switching Center Specialist (72G); Data Processing NCO (74Z)
   Navy: Sonar Technician (ST); Aviation Antisubmarine Warfare Operator (AW)
   Air Force: Supply Systems Specialist (64850)

AUTOMATIC DATA-PROCESSING-EQUIPMENT OPERATOR

1. USOE Cluster: Business and Office
2. Civilian Title: Digital-Computer Operator (213.382)
3. Military Titles: (Digital-Computer Operator)
   Army: Data Communications Switching Center Specialist (72G); Computer Systems Operator (74E)
   Navy: Data Processing Technician (DP); Computer Systems Operator (DP-2702, 2703); Tactical Support Center Data Processing Technician (DP-2706); IOIC Storage and Retrieval Maintenanceman/ADP Operator (DP-2733, 2734); Computer Operator (AG-7423); Communications Technician (Technical) (CTT)
   Air Force: Computer Operator (51150); Supply Systems Specialist (64850); Automatic Digital Switching Specialist (29530); Printer Systems Operator (20752)
   Marine Corps: Computer Operator—1401 (4024); Computer Operator—RCA 3301 (4026); Computer Operator—IBM S/360 (4033, 4034); Multi-Systems Controller—IBM S/360 (4036); Operator/Programmer—UNIVAC 1500 (4044)
   Coast Guard: Computer Console Operator (QC: G5)

4. Composite Service Job Statement: Performs any one or a combination of the following: Operates and controls electronic digital computer to process business, scientific, engineering or other data according to operating instructions. Sets control switches on computer and peripheral equipment such as external memory, data communicating, synchronizing, input and output recording or display devices, to integrate or operate equipment according to program, routines, subroutines and data requirements specified in written operating instructions. Selects and loads input and output units with materials such as tapes or punch cards, and printed forms for operating runs. Confers with technical personnel such as systems analysts, data systems engineers, and programmers concerning machine capability and operations. Types alternate commands into computer console according to predetermined instructions to correct error or failure and resume operations. Notifies supervisor of error or equipment stoppage.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in data processing, mathematics, electricity and electronics, bookkeeping, accounting and business machine operation.
   b. Physical: Normal color vision.
   c. Specific: May require appropriate security clearance. Mechanical and clerical aptitude.

6. Related Service Jobs:
Army: Data Processing Noncommissioned Officer (74Z)
Navy: Communication Technician (Collection) (CTR); Communication Technician (Communication) (CTO)
Air Force: Communication Center Specialist (29150)
Marine Corps: Off-Line Equipment Operator (4015)
Coast Guard: Computer Operator/Peripheral Equipment Operator (QC: G4)

AUTOMATIC DATA-PROCESSING-EQUIPMENT OPERATOR

1. USOE Cluster: Business and Office

2. Civilian Title: Key-Punch Operator (213.582)

3. Military Titles: (Key-Punch Operator)
Army: Card and Tape Writer (71U)
Navy: Data Processing Technician (DP)
Marine Corps: Card Punch Operator (4013)
Coast Guard: Key-Punch Operator (QC: G-1 through G-6)

4. Composite Service Job Statement: Operates alphabetic and numeric key-punch machine, similar in operation to electric typewriter, to transcribe data from source material onto punch cards and produce prepunched data. Operates verifier to review completed work. Operates magnetic or paper tape writer to punch instructions and data onto tape. Operates automatic typewriter to type data on paper tape for input into data processing system.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in typing and data processing.
b. Physical: None.
c. Specific: Clerical and mechanical aptitude.

6. Related Service Jobs:
Army: Data Processing Noncommissioned Officer (74Z)
Air Force: Personnel Specialist (73250); Computer Operator (51150); Administrative Clerk (70250)
Marine Corps: Aviation Supply Man (3072)

AUTOMATIC DATA-PROCESSING-EQUIPMENT OPERATOR

1. USOE Cluster: Business and Office

2. Civilian Title: Tabulating-Machine Operator (213.782)

3. Military Titles: (Computer Operator)
Army: Automatic Data Processing System Machine Operations Specialist (74D)
Navy: Data Processing Technician (DP); Electrical Accounting Machine Wiring Technician (DP-2701)
Air Force: Computer Operator (51150)
Marine Corps: Electric Accounting Machine Operator (4014); Aviation Supply Man (3072)
Coast Guard: Data Processing Machine Operator (QC: G3)

4. Composite Service Job Statement: Performs any one or a combination of the following: Operates electrical accounting equipment such as sorters, interpreters, tabulators, reproducers, card processors, collators, card read punch, printers, tape duplicators, tape units on stored programs, optical scanners, and other automatic data processing equipment operated off-line from computer system. Wires control panels for electric accounting machines.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in data processing, mathematics, electricity and electronics.
b. Physical: Normal color perception.
c. Specific: Clerical and mechanical aptitude.

6. Related Service Jobs:

Army: Data Processing Noncommissioned Officer (74Z)
Air Force: Programming Specialist (51151)

BOOKKEEPING-MACHINE OPERATORS

1. USOE Cluster: Business and Office

2. Civilian Title: Pay-Roll Clerk (215.488)

3. Military Titles: (Pay Clerk)

Army: Finance Specialist (73C)
Navy: Disbursing Clerk (DK)
Air Force: Disbursement Accounting Specialist (67153)
Marine Corps: Personal Financial Records Clerk (3421)
Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Maintains military pay records, payrolls and prepares public vouchers. Furnishes information on and registers allotments and allowances. Maintains financial documents and verifies source documents with the individuals serviced. Accounts for cash. Prepares annual reports of earnings and income tax deductions. Determines amount due and makes payment to personnel upon separation, reenlistment, transfer, and in emergency situations.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in mathematics, operation of business machines, bookkeeping and accounting.
b. Physical: None
c. Specific: Aptitude for arithmetical computations and ability to write figures legibly.

6. Related Service Jobs:

~~Army:~~ Finance Senior Sergeant (73Z)
Navy: Storekeeper (SK)
Air Force: General Accounting Specialist (67151)
Marine Corps: Travel Clerk (3431)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office
2. Civilian Title: Pay-Roll Clerk, Chief (219.138)
3. Military Titles: (Finance Chief)
   Army: Finance Senior Sergeant (73Z)
   Navy: Disbursing Clerk (DK)
   Air Force: Accounting and Finance Supervisor (67170)
   Marine Corps: Disburser/Disbursing Chief (3432)

4. Composite Service Job Statement: Supervises workers engaged in financial and accounting activity such as processing payrolls and fiscal matters including travel, separation, and reenlistments. Compiles and reviews financial information and performs administrative duties pertaining to financial management and comptroller activities.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, accounting, and statistics.
   b. Physical: None.
   c. Specific: Ability to write figures legibly.

6. Related Service Jobs:
   Army: Finance Specialist (73C)
   Marine Corps: Accounting Clerk (3451)
   Coast Guard: Storekeeper (SK)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office
2. Civilian Title: Aircraft-Log Clerk (219.388)
3. Military Titles: (Aircraft Maintenance Clerk)
   Navy: Aviation Maintenance Administrationman (AZ)
   Marine Corps: Aircraft Maintenance Administration Clerk (6082); Aircraft Maintenance Data Analysis Technician (6083)

4. Composite Service Job Statement: Plans, schedules and coordinates aircraft maintenance workload. Schedules special and calendar aircraft inspections and incorporation of changes and modifications to aircraft and equipment. Sets up and maintains status boards. Collects, compiles and records data pertaining to the history, operation, maintenance, configuration, receipt and transfer of aircraft and related aeronautical equipment. Prepares reports and correspondence required in the Aircraft Maintenance Program. Determines requirements for requisitions, and controls issue of change kits. Requisitions publications, forms, and microfilm. Organizes and operates technical libraries.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in typing.
   b. Physical: None
   c. Specific: Ability to perform detailed and repetitive work.

6. Related Service Jobs:
   Navy: Aviation Storekeeper (AK); Storekeeper (SK)
   Air Force: Administration Specialist (70250)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office
2. Civilian Title: Coding Clerk (219.388)
3. Military Titles: (Coding Clerk)
   Army: Data Analysis Specialist (74C)
   Navy: Data Processing Technician (DP)
   Coast Guard. Data Processing Technician (QC: DP)

4. Composite Service Job Statement: Converts items of information from source documents into codes for processing by data typing units: Reviews and codes items of information on source documents from personnel, intelligence, transportation, supply, maintenance, medical, finance and other areas. Compares machine-processed information against original source documents to detect errors and omissions. Confers with supervisor to obtain missing source documents, data, or corrected source documents. Writes a number on punch cards to columnar limits of fields for coding. Reviews machine-prepared items such as punched cards and paper tape. Receives output and audits output to predetermined controls and procedures. Assembles, binds, and prepares transmittal document, and posts entries in control ledger to indicate release.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in business machine operation.
   b. Physical: None.
   c. Specific: Must be eligible for appropriate security clearance (Army). Clerical aptitude.

6. Related Service Jobs: None.

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Transportation
2. Civilian Title: Load-Control Agent (219.388)
3. Military Titles: (Load Control Clerk)
   Army: Terminal Operations Specialist (57H)
   Navy: Loadmaster (8291)
   Air Force: Aircraft Loadmaster (60750)
   Marine Corps: Air Freight Operations Man (3112)
   Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Performs any one or a combination of: Reviews aircraft weight and balance record and load manifest to determine quantity of cargo and passengers/troops to be loaded and proper placement in aircraft. Computes load distribution and amount of weight to be placed in each compartment. Supervises and assists in aircraft loading and off-loading, using such equipment as loaders, forklifts, electrical hoists, and winches. Insures cargo and passengers are loaded in accordance with load distribution plan. Conducts cargo/personnel air drops.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Spatial aptitude.
6. Related Service Jobs:
   Army: Movement Specialist (71N)
   Air Force: Air Cargo Specialist (60551)
   Marine Corps: Air Freight Transportation Clerk (3122)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office
2. Civilian Title: Programer, Detail (219.388)
3. Military Titles: (Programer)
   Army: Computer Programer (74F)
   Navy: Computer Programer/System Programer (DP-2741, 2742, 2743, 2744, 2745, 2746); Computer Programer (AG—7426)
   Air Force: Programing Specialist (51151)
   Marine Corps: Operator/Programer, UNIVAC 1500 (4044); Programer, Computer RCA 3301 (4053); Programer, Symbolic/Autocoder 1401 (4057, 4058); Programer, Optical Character Recognition System (4059); Programer, IBM S/360 (4063, 4065, 4067, 4069)
   Coast Guard: Computer Programer (QC: G6)

4. Composite Service Job Statement: Prepares and codes programs of varying complexity for processing data on various computer systems. Develops and documents programs from systems flow charts. Diagnoses, tests, and corrects programs written for processing data for various computer systems. Prepares computer edits of input data and analyzes output products for program logic. Performs mathematical, analytical, and subject matter investigations in areas such as, personnel, supply, finance, medical and data communication to develop automatic data processing procedures and techniques.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in computer sciences, algebra and geometry.
   b. Physical: None
   c. Specific: Clerical and mechanical aptitudes.
6. Related Service Jobs:
   Army: Data Processing NCO (74Z)
   Navy: Aerographer's Mate (AG); Data Processing Technician (DP)
   Air Force: Computer Operator (51150)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office
2. Civilian Title: Statistical Clerk (219.388)

3. Military Titles: (Statistical Clerk)

Air Force: Management Analysis Specialist (69150); Communications-Electronics Programs Management Specialist (29630)

4. Composite Service Job Statement: Plans and conducts review of program plans and functions: Prepares documentation required for the implementation of approved programs. Compiles and reviews program data from other agencies to detect program trends. Recommends changes, deletions, or additions to programs. Compiles, extracts and records data using adding machine or calculator, from recurring and special reports of activities such as physical, costs, personnel, material, operations, installations, medical training, auditing, and inspection. Reviews data to detect trends for use in evaluating effectiveness and efficiency of military operations.

5. Desirable Qualifications Summary:
   a. Academic Background: Completion of High School and courses in mathematics and statistics.
   b. Physical: None.
   c. Specific: Must be eligible for appropriate security clearance.

6. Related Service Jobs:
Army: Mathematics Statistics Assistant (01E); Data Analysis Specialist (74C)
Navy: Data Processing Technician (DP)
Marine Corps: Accounting Analyst/Finance Chief (3452)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office

2. Civilian Title: Accounting Clerk (219.488)

3. Military Titles: (Accounting Clerk)
Army: Finance Specialist (73C)
Navy: Storekeeper (SK); Aviation Storekeeper (AK)
Air Force: Disbursement Accounting Specialist (67153)
Marine Corps: Travel Clerk (3431); Accounting Clerk (3451)
Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Maintains general ledger which contains fund reports, records, and files. Performs fiscal accounting by checking monies committed or obligated. Verifies disbursement documents for materiel and real property and for contractural services including utilities, communications, transportation of things and other services. Keeps accounts to reflect status of available funds. Performs internal review operations. Assists in the design of mechanized accounting systems.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, statistics and operation of business machines.
   b. Physical: None
   c. Specific: Office machine, bookkeeping or clerical experience.

6. Related Service Jobs:
Army: Finance Senior Sergeant (73Z)
Air Force: Budget Specialist (67230); Auditing Specialist (67330)
Marine Corps: Supply Administration and Operations Man (3043); Aviation Supply Man (3072)

COMPUTING AND ACCOUNT-RECORDING

1. USOE Cluster: Business and Office
2. Civilian Title: Cost Clerk (219.488)
3. Military Titles: (Cost Clerk)
   Air Force: Real Estate-Cost Management Analysis Specialist (55450)
4. Composite Service Job Statement: Collects and summarizes cost and manhour data expended in operation and maintenance of real estate facilities, and posts to applicable cost ledgers data pertaining to labor, materials, purchased utilities, construction, equipment, and real estate rentals. Maintains real estate records and reports. Analyzes, records, reconciles, and reports accounting transactions and keeps accounts to reflect current status of funds. Performs internal review operations.
5. Desirable Qualifications Summary:
   a. Academic Background: High School courses in business.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs: None.

PRODUCTION CLERKS

1. USOE Cluster: Business and Office
2. Civilian Title: Production Clerk II (221.388)
3. Military Titles: (Production Clerk)
   Air Force: Programs and Work Control Specialists (55530)
4. Composite Service Job Statement: Schedules and coordinates all work shop requirements from work orders and job orders on hand. Establishes priorities, prepares schedules, and maintains work status. Monitors and assures the continuous flow of work. Inspects all civil engineering activities to accomplish quality control program.
5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs: None.

SHIPPING AND RECEIVING CLERKS

1. USOE Cluster: Business and Office
2. Civilian Title: Shipping Clerk I (222.138)
3. Military Titles: (Shipping Clerk)
   Army: Movements Speicalist (71N)
   Navy: Independent Duty Storekeeper (SK-2815); Personal Property Specialist (SK-2819)

Air Force: Freight Traffic Specialist (60251); Passenger and Household Goods Specialist (60250)
Marine Corps: Freight Transportation Clerk (3121); Air Freight Transportation Clerk (3122)
Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Supervises and coordinates activities of workers and assists in receiving, storing, loading, shipping, and unloading supplies, equipment, household goods, and personal effects. Prepares forms and maintains records concerning inbound and outbound shipments. Schedules and expedites movement of freight. Develops movement plans, taking into consideration policy regulations and procedures pertaining to transportation cargo documentation, personnel entitlements under Department of Defense Joint Travel Regulations, capabilities and limitations of various modes of transportation, and operational problems. Prepares forms for recording quantity and condition of property received, inventories, and claims for adjustments against carrier or carrier's agent for property lost or damaged in shipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in typing, bookkeeping and commercial arithmetic.
   b. Physical: None.
   c. Specific: Good handwriting or printing ability.

6. Related Service Jobs:
Army: Armor/Unit Supply Specialist (76Y); Stock Control and Accounting Specialist (76P); Medical Supply and Parts Specialist (76J)
Navy: Storekeeper (SK); Aviation Storekeeper (AK)
Air Force: Inventory Management Specialist (64550); Supply Services Specialist (61150)
Marine Corps: Supply Administration and Operations Man (3043); Aviation Supply Man (3072)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution
2. Civilian Title: Ammunition Supervisor (223.138)
3. Military Titles: (Ammunition Supervisor)
Army: Ammunition Foreman (55Z); Chemical Operations Specialist (54F)
Navy: Gunner's Mate (GM); Aviation Ordnanceman (AO)
Air Force: Munitions Maintenance Supervisor (46170)
Marine Corps: Ammunition Technician (2311); Aviation Ordnance Chief (6533)
Coast Guard: Aviation Survivalman (ASM); Gunner's Mate (GM); Dangerous Cargoman (QC: DC)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in ammunition operations. Inspects operations and areas to evaluate safety and efficiency of work. Supervises packaging and rigging of ordnance loads and movement by all types of transportation.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, mathematics, electricity and shop work.
   b. Physical: Normal color discrimination.
   c. Specific: Mechanical aptitude.

6. Related Service Jobs:
   - Army: Chemical Operations Assistant (54A)
   - Navy: Mineman (MN); Torpedoman's Mate (TM)
   - Air Force: Nuclear Weapons Technician (46370); Small Arms Technician (75370); Weapons Maintenance Technician (46270)
   - Marine Corps: Aviation Ordnance Munitions Man (6521)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution
2. Civilian Title: Stock-Control Supervisor (223.138)
3. Military Titles: (Stock-Control Supervisor)
   - Army: Senior Supply Sergeant (76Z)
   - Navy: Storekeeper (SK); Aviation Storekeeper (AK)
   - Air Force: Inventory Management Supervisor (64570); Materials Facilities Supervisor (64770); Supply Systems Supervisor (64870)
   - Marine Corps: Supply Administration and Operations Man (3043); Aviation Supply Man (3072)
   - Coast Guard: Storekeeper (SK)
4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in ordering, receiving, storing, issuing and shipping material, supplies, and equipment. Conducts on-the-job training and provides instructions in supply-support procedures and functions. Evaluates system of internal controls using general directives as a basis for evaluation and taking into account any procedures which are peculiar to the local operation.
5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in bookkeeping, accounting, and commercial arithmetic.
   - b. Physical: None.
   - c. Specific: Good handwriting or printing ability.
6. Related Service Jobs:
   - Army: Stock Control and Accounting Specialist (76P); Armorer/Unit Supply Specialist (76Y)
   - Navy: Navy Exchange Manager (SH-3111)
   - Marine Corps: Subsistence Supply Man (3061); Procurement Supply Man (3081)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution
2. Civilian Title: Procurement Clerk (223.368)
3. Military Titles: (Procurement Clerk)
   - Army: Procurement Sergeant (76N)
   - Navy: Independent Duty Storekeeper (SK-2815)

Air Force: Procurement Specialist (65150)
Marine Corps: Procurement Supply Man (3081)
Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Performs any one or a combination of the following: Performs various duties incident to the procurement and payment for supplies and services procured by open purchase from commercial sources. Determines by nature of procurement transaction whether negotiation, formal advertising, or interdepartmental procurement is proper with reference to public laws, procurement policies, methods, and regulations. Acts as contracting officer, ordering officer, or as authorized representative of contracting officer. Prepares and maintains required forms, records, correspondence, reports, and files. Takes necessary action to protect the interests of the Government.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business mathematics, bookkeeping and accounting.
   b. Physical: None.
   c. Specific: Experience in warehousing.

6. Related Service Jobs:
   Navy: Aviation Storekeeper (AK); Storekeeper (SK)
   Marine Corps: Supply Administration and Operations Man (3043)

STOCK CLERKS AND RELATED

1. USOE Cluster: Fine Arts and Humanities
2. Civilian Title: Film-Library Clerk (223.387)
3. Military Titles: (Audiovisual Librarian)
   Air Force: Audiovisual Media Specialist (23150)
   Marine Corps: Audiovisual Librarian (4921)

4. Composite Service Job Statement: Maintains library of film, equipment and other audiovisual materials. Procures, receives, catalogs, stores and issues training aids and audiovisual equipment such as films, phonograph records, tapes, projectors and recorders. Inspects equipment for defects and makes minor repairs. Inspects, cleans and repairs damaged film. Assists users in selection of appropriate films and previews film to determine applicability for training.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None
   c. Specific: None

6. Related Service Jobs:
   Army: Clerk Typist (71B); Administrative Specialist (71L)
   Coast Guard: Photo-Journalist (PA)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution
2. Civilian Title: Magazine Keeper (223.387)

3. Military Titles: (Ammunition Magazine Keeper)
Army: Ammunition Storage and Operations Specialist (55B)
Navy: Gunner's Mate (GM); Aviation Ordnanceman (AO)
Air Force: Munitions Maintenance Specialist (46150); Inventory Management Specialist, Munitions (64550A)
Marine Corps: Ammunition Technician (2311); Aviation Ordnance Munitions Man (6521)
Coast Guard: Aviation Survival Man (ASM); Gunner's Mate (GM); Dangerous Cargoman (QC: DG)

4. Composite Service Job Statement: Receives, inspects, stores, issues, reconditions and transports ammunition and explosives. Takes inventories and maintains stock records of ammunition. Assists in locating, constructing and operating dumps, distribution, and supply points. Loads and prepares loads for movement by all types of transportation. Serves as technical escort for munitions in compliance with safety standards. Packs, packages, crates, stencils, weighs, and bands ammunition for shipment or storage. Enforces observance of safety regulations by persons entering the ammunition storage area. Conducts safety checks and inspections.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics and mathematics.
   b. Physical: Normal depth perception. Normal color discrimination.
   c. Specific: Experience in electrical or mechanical repair work. Must not be allergic to explosive compositions (Army).

6. Related Service Jobs:
Navy: Torpedoman's Mate (TM)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Material Clerk (223.387)

3. Military Titles: (Material Clerk)
Army: Procurement Sergeant (76N)
Navy: Supply and Accounting Analyst (SK-2816, 2817, 2818)
Air Force: Material Facilities Specialist (64750); Supply Services Specialist (61150)
Marine Corps: Supply Administration and Operations Man (3043)
Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Performs any one or a combination of the following: Verifies quantities of material received against bills of lading, contracts, purchase requests, and shipping documents to determine irregularities. Inspects and compares condition of material received with specifications, and rejects defective items. Requisitions supplies on basis of material reviewing frequency and demand data. Performs clerical and administrative duties, such as reconciliation of listings, reviews of supply transmittal reports and stock inventory, incident to the functions of a manual/mechanized supply account. Prepares budget reports, reviews supply error listings, and advises supervisor of remedial actions.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in accounting and bookkeeping.
   b. Physical: None.
   c. Specific: Good handwriting or printing ability.

6. Related Service Jobs:

Army: Armorer/Unit Supply Specialist (76Y)

Navy: Storekeeper (SK); Aviation Storekeeper (SK)

Air Force: Inventory Management Specialist (64550)

Marine Corps: Aviation Supply Man (3072)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Parts Clerk (223.387)

3. Military Titles: (Parts Clerk)

Army: Special Purpose Equipment Repair Parts Specialist (76Q); Missile Repair Parts Specialist (76R); Automotive Repair Parts Specialist (76S); Aircraft Repair Parts Specialist (76T); Communications-Electronics Repair Parts Specialist (76U)

Navy: Storekeeper (SK); Aviation Storekeeper (AK)

4. Composite Service Job Statement: Performs or advises on use, interchangeability and identification of repair parts for vehicles and equipment including chemical protection, construction, materials handling, electric power generator, floating, rail, repairs and utilities equipment, weapons, missile materiel, automotive materiel, aircraft materiel and communications-electronics materiel. Receives, locates, stores, preserves and issues repair parts. Inspects, counts and classifies incoming repair parts. Determines repair part interchangeability, substitution and application. Selects parts from stocks to fill requisitions. Processes turn-in and direct exchange of repair parts.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in bookkeeping and accounting.

b. Physical: Normal color discrimination.

c. Specific: Experience in office work or warehousing.

6. Related Service Jobs:

Army: Aviation Maintenance Administrationman (AZ)

Air Force: Base Maintenance Equipment Repairman (47250)

Coast Guard: Storekeeper (SK); Machinery Technician (MK); Electronics Technician (ET)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Stock Clerk (223.387)

3. Military Titles: (Stock Clerk)

Army: Medical Supply and Parts Specialist (76J); Subsistence Storage Specialist (76X); Equipment Storage Specialist (76V); Armorer/Unit Supply Specialist (76Y)

Navy: Storekeeper (SK); Aviation Storekeeper (AK); Medical Administrative Technician (HM-8442)

Air Force: Material Facilities Specialist (64750); Medical Materiel Specialist (91550); Supply Services Specialist (61150)
Marine Corps: General Warehouseman (3051); Subsistance Supply Man (3061)
Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Performs any one or a combination of the following: Receives, stores, and issues equipment, material, supplies, merchandise, or tools and compiles stock records in stock room, warehouse, or storage yard. Confers with maintenance personnel to discuss and decide on such action as repair or discarding of stock items. Recommends quantities and locations for shop/bench stock material and schedules replenishment. Accepts surplus property available for redistribution or sale. Performs supply stock accounting, involving use of manual or mechanized stock record accounting procedures. Maintains clothing and equipment records. Performs accounting and sales functions in self service supply, repairs and utilities, clothing sales, commissary, exchange, or property disposal accounts. Procures, stores, and issues medical supplies.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business, typing and mathematics. Additional subjects for Navy and Coast Guard: biology, chemistry.
   b. Physical: Normal color discrimination (Army).
   c. Specific: None.

6. Related Service Jobs:
   Navy: Disbursing Clerk (DK); Ship's Serviceman (SH)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution
2. Civilian Title: Stock-Control Clerk (223.387)
3. Military Titles: (Stock Clerk)
   Army: Stock Control and Accounting Specialist (76P); Medical Supply and Parts Specialist (76J); Armorer/Unit Supply Specialist (76Y)
   Navy: Storekeeper (SK); Aviation Storekeeper (AK); Clerk—Ship's Serviceman (SH-3112)
   Air Force: Inventory Management Specialist (64550)
   Marine Corps: Supply Administration and Operations Man (3043); Aviation Supply Man (3072)
   Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Prepares and edits requisitions, follow up, and back orders for supplies and equipment. Prepares invoices, vouchers and custody records, makus issues, assists in computing and monitoring stock levels, and posts required entries to appropriate records or accounts. Performs supply stock accounting, involving use of manual or mechanized stock record accounting procedures. Maintains and/or assists in maintaining records required for performance, budgeting, and management of funds.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business arithmetic, bookkeeping and accounting.
   b. Physical: None.
   c. Specific: Good handwriting or printing.

6. Related Service Jobs:
   Army: Senior Supply Sergeant (76Z)
   Navy: Medical Administrative Technician (HM-8442)
   Air Force: Inventory Management Specialist (64550); Medical Materiel Specialist (91550)

STOCK CLERKS AND RELATED

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Storekeeper (223.387)

3. Military Titles: (Storekeeper)
   Navy: Aviation Storekeeper (AK); Storekeeper (SK)
   Coast Guard: Storekeeper (SK)

4. Composite Service Job Statement: Receives, stores and issues supplies and equipment. Compiles records of supply transactions aboard ship and at shore stations. Compares items listed on requisitions and invoices with supplies received to detect shortages. Stores supplies and equipment in storerooms. Issues supplies inventories supplies and equipment. Compiles report of expenditures.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in business.
   b. Physical: None
   c. Specific: Good handwriting or printing ability.

6. Related Service Jobs:
   Army: Armorer/Unit Supply Specialist (76Y)
   Navy: Ship's Serviceman (SH)
   Air Force: Supply Services Specialist (61150); Inventory Management Specialist (645-50); Materiel Facilities Specialist (64750)

STOCK CLERKS AND RELATED

1. USOE Cluster: Business and Office

2. Civilian Title: Tape Librarian (223.387)

3. Military Titles: (Tape Librarian)
   Marine Corps: Data Systems Librarian (4019)

4. Composite Service Job Statement: Classifies, catalogs, and maintains library of reels of magnetic or punched paper tape or decks of magnetic or punchcards used for electronic data-processing purposes. Classifies and catalogs material according to content, purpose of program, routine or subroutine, and date on which generated. Assigns code conforming with standardized system. Prepares index cards for file reference. Stores materials and records according to classification and catalog number. Issues materials and maintains charge-out records. Inspects returned tapes or cards and notifies supervisor if worn or damaged. May maintain files of program developmental records and operating instructions (run books). May operate key punch to replace defective punchcards and produce data cards to identify punchcard decks. May work in computer room operations, performing such tasks as loading and removing printout forms, reels of tape and decks of cards from machines.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None
   c. Specific: None

6. Related Service Jobs:
   Army: Computer Systems Operator (74E)
   Navy: Data Processing Technician (DP)
   Air Force: Computer Operator (51150); Automatic Digital Switching Technician (295-30); Supply Systems Specialist (64850)

POST OFFICE CLERKS

1. USOE Cluster: Public Service

2. Civilian Title: Post-Office Clerk (232.368)

3. Military Tities: (Postal Clerk)
   Army: Postal Clerk (71F)
   Navy: Postal Clerk (PC)
   Air Force: Administration Specialist (70250)
   Marine Corps: Postal Clerk (0161)
   Coast Guard: Postal Cerk (QC: PC)

4. Composite Service Job Statement: Receives and opens mail pouches and sacks. Receives, sorts, and dispatches mail and accepts and accounts for accountable mail. Sells postage stamps, issues and pays money orders, prepares and renders money order reports and renders other collateral services involving the handling of postal funds. May operate postal service centers, unit mail rooms, and postal directory services. Provides security and safeguards for mail and postal facilities. Answers questions pertaining to mail regulations or procedures.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in English, typing, geopraphy and arithmetic.
   b. Physical: None
   c. Specific: Above average patience and courtesy. Must be United States citizen. May require an appropriate security clearance.

6. Related Service Jobs:
   Army: Administrative Specialist (71L)
   Coast Guard: Yeoman (YN); Storekeeper (SK)

TELEPHONE OPERATORS

1. USOE Cluster: Communications and Media

2. Civilian Title: Central-Office-Operator Supervisor (235.138)

3. Military Titles: (Communications Office Supervisor)
   Army: Central Office Operations Specialist (72H)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in establishing and operating telephone switchboards and radio consoles: Operates switchboards and radio consoles to provide communication for President's staff, United States Secret Service, and other support elements of the Executive Branch of the Government. Operates commercial and secure telephone and radio communications switchboards, consoles, and auxiliary equipment. Provides locator service. Recognizes individuals by voice. Establishes and operates secure voice transmissions equipment to provide ground and air communications. Assembles and operates radio-telephone communications equipment to provide communication for Presidental party from any point in world. Establishes and operates numerous emergency communications systems.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electronics.
   b. Physical: Normal color discrimination.
   c. Specific: Must have appropriate security clearance. Must be United States citizen.

6. Related Service Jobs:
   Army: Telephone Switchboard Operator (72C)
   Air Force: Communications Center Specialist (29150)

TELEPHONE OPERATORS

1. USOE Cluster: Communication and Media

2. Civilian Title: Central-Office Operator (235.862)

3. Military Titles: (Switchboard Operator)
   Army: Telephone Switchboard Operator (72C)
   Navy: Interior Communications Electrician (IC)
   Marine Corps: Wireman (2511)

4. Composite Service Job Statement: Performs any one or a combination of the following: Operates multicord common-battery manual, semiautomatic and automatic telephone switchboards and auxiliary equipment. Performs telephone central office administrative functions. Employs directories and other reference material as aids in call completion and for information service. Maintains updated traffic diagrams for reference. Keeps station logs to reflect operating record of central office activities.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Ability to speak and understand the English language with fluency. Normal color discrimination. Eye-hand coordination.
   c. Specific: None.

6. Related Service Jobs:
   Army: Tactical Circuit Controller (31N); Central Office Operations Specialist (72H)
   Air Force: Communications Center Specialist (29150)
   Coast Guard: Radioman (RM)

TELEGRAPH OPERATORS

1. USOE Cluster: Communication and Media

2. Civilian Title: Morse Operator (236.588)

3. Military Titles: (Radio/Telegraph Operator)
   Army: Radio Operator (05B); Radio Teletype Operator (05C)
   Navy: Communications Technician (Collection) (CTR); Intermediate Radio Operator (RM-2304)
   Air Force: Radio Operator (29353); Morse Systems Operator (20751)
   Marine Corps: Radio Telegraph Operator (2533); Airborne Radio Operator (7382)
   Coast Guard: Aviation Electronics Technician (AT); Radioman (RM)

4. Composite Service Job Statement: Sends and receives messages in morse code using manual or semi-automatic key. Verifies, corrects and analyzes messages for accuracy.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, physics and electricity.
   b. Physical: Finger and manual dexterity. Normal auditory perception.
   c. Specific: Amateur radio operator experience. Must be eligible to receive appropriate security clearance.

6. Related Service Jobs:
   Navy: Radioman (RM)
   Marine Corps: Military Affiliate Radio System Radio Operator (8981)

INFORMATION AND MESSAGE DISTRIBUTION

1. USOE Cluster: Public Services

2. Civilian Title: Router (239.588)

3. Military Titles: (Movements Router)
   Army: Postal Clerk (71F)
   Navy: Area Mail Router (PC-2211)

4. Composite Service Job Statement: Maintains records of current locations and planned movements of military forces. Reads operations orders, deployment schedules, and movement reports to obtain information; such as locations and planned movement of forces. Coordinates location information with military and commercial transportation schedules. Stamps or tags letters, packages or bundles to label mail. Issues instructions to civil and military postal facilities for expeditious dispatch of mail.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in English, typewriting, and geography.
   b. Physical: None.
   c. Specific: Must be U. S. citizen. Above average patience, courtesy and perception.

6. Related Service Jobs:
   Navy: Postal Clerk (PC)

MISCELLANEOUS CLERICAL

1. USOE Cluster: Public Services

2. Civilian Title: License Clerk (249.368)

3. Military Titles: (License Clerk)
Army: Motor Transport Operator (64C)
Air Force: Vehicle Operator/Dispatcher (60350)
Marine Corps: Licensing Examiner (3538)
Coast Guard: Driver Examiner (QC: DJ)

4. Composite Service Job Statement: Issues motor vehicle driver's license or permits to qualified applicants and records data on prescribed forms. Conducts written, oral, or performance test to determine qualifications of applicants. Maintains a library of Federal, State, and local driving rules and regulations. May develop driving ranges and test courses.

5. Desirable Qualifications Summary:
a. Academic Background: None.
b. Physical: None.
c. Specific: None.

6. Related Service Jobs:
Navy: Equipment Operator (EO)

MISCELLANEOUS CLERICAL

1. USOE Cluster: Business and Office

2. Civilian Title: Religious-Affairs Clerk (249.368)

3. Military Titles: (Religious-Affairs Clerk)
Army: Chaplain's Assistant (71M)
Navy: Chaplain's Clerk (YN-2525)
Air Force: Chapell Management Specialist (70150)

4. Composite Service Job Statement: Assists the Chaplain in the conduct of religious and associated services and performance of related administrative functions. Prepares and keeps schedule of chaplain's appointments. Prepares and types correspondence and reports. Prepares and maintains chaplain fund accounts and records. Operates office and audio-visual equipment.

5. Desirable Qualifications Summary:
a. Academic Background: Course in typing.
b. Physical: None
c. Specific: Aptitude for detailed work. Ability to work harmoniously with others.

6. Related Service Jobs:
Army: Administrative Specialist (71L)
Navy: Yeoman (YN)
Air Force: Administrative Specialist (70250)

MISCELLANEOUS CLERICAL

1. USOE Cluster: Business and Office

2. Civilian Title: Medical-Record Clerk (249.388)

3. Military Titles: (Medical Records Clerk)
Army: Medical Records Specialist (71G)
Navy: Medical Administrative Technician (HM-8442); Field Dental Technician (DT-8707)
Air Force: Medical Administrative Specialist (90650)
Coast Guard: Hospital Corpsman (HM); Dental Technician (DT)

4. Composite Service Job Statement: Performs any one or a combination of the following: Performs medical administrative duties. Maintains data and compiles and compares periodic reports, graphs, and charts concerning such matters as morbidity, bed occupancy, staffing, civilian medical care, and preventive medicine. Receives, safeguards, accounts for, and reports funds and valuables received from collections for medical services, subsistence, and patient trust funds. Prepares, maintains, and files medical and personnel records. Types correspondence to answer inquiries on results of medical board actions, line of duty investigations, eligibility for medical care under the Uniform Service Health Benefits Program and related matters.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in typing.
b. Physical: Finger dexterity.
c. Specific: Strong desire to help those in need.

6. Related Service Jobs:
Navy: Personnelman (PN); Hospital Corpsman (HM); Dental Technician (DT)

MERCHANDISING OCCUPATIONS, EXCEPT SALESMEN

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Department Head, Supermarket (299.138)

3. Military Titles: (Commissary Store Department Head)
Navy: Commissary Store Meat and Produce Department Supervisor (MS-3011)
Air Force: Supply Services Supervisor (61170); Meat Processing Supervisor (61270)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in ordering, stocking, pricing, displaying, and rotating goods in retail food outlet. Plans department layout and displays. Insures that merchandise is accurately priced, fresh and rotated. Corrects discrepancies or directs correction be accomplished. Inspects department for cleanliness and orderliness.

5. Desirable Qualifications Summary:
a. Academic Background: None
b. Physical: None
c. Specific: High standards of neatness and cleanliness.

6. Related Service Jobs:
Army: Subsistence Storage Specialist (76X)
Navy: Mess Management Specialist (MS)
Marine Corps: Subsistence Supply Man (3061)
Coast Guard: Subsistence Specialist (SS)

MERCHANDISING OCCUPATIONS, EXCEPT SALESMEN

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Optician, Dispensing (299.884)

3. Military Titles: (Dispensing Optician)
   Army: Optical Laboratory Specialist (42E)
   Navy: Optician (General) Technician (HM-8462); Optician Technician (HM-8463)
   Air Force: Optometry Specialist (91255)

4. Composite Service Job Statement: Adjusts, fits and dispenses spectacles. Determines facial and spectacle measurements and operates vision screening devices. Interprets prescription, cuts edges and inserts lenses into appropriate frames. Provides emergency spectacle repair service. Maintains and repairs optical laboratory equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, physics, algebra and science.
   b. Physical: None
   c. Specific: Experience in first aid, drugstore or hospitals.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)
   Coast Guard: Hospital Corpsman (HM)

TAB 3

SERVICE OCCUPATIONS

This category includes occupations concerned with performing tasks in and around private households; serving individuals in institutions and in commercial and other establishments; and protecting the public against crime, fire, accidents, and acts of war.

COOKS, DOMESTIC

1. USOE Cluster: Personal Services

2. Civilian Title: Cook (305.281)

3. Military Titles: (Cook)
Army: Enlisted Aid (00H)
Navy: Public Quarters Mess Management Specialist (MS-3512)
Air Force: Enlisted Aid (99121)
Marine Corps: Cook, Specialist (3372); Food Service Technician, Specialist (3382)
Coast Guard: Subsistence Specialist (SS)

4. Composite Service Job Statement: Plans menus and cooks meals, in private home, according to recipes or tastes of General/Admiral. Cooks vegetables and bakes breads and pastries. Boils, broils, fries and roasts meats. Plans menus and orders foodstuffs. Cleans kitchen and cooking utensils. May serve meals. May prepare fancy dishes and pastries. May prepare food for special diets. May prepare and serve meals for parties and special events. Assists in planning, arranging and preparing official social functions and activities.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in home economics and dietetics.
b. Physical: None
c. Specific: High standards of honesty and cleanliness.

6. Related Service Jobs:
Army: Food Service Specialist (94B)
Navy: Mess Management Specialist (MS)
Air Force: Cook (62250)
Marine Corps: Cook (3371)

HOSTESSES AND STEWARDS, FOOD AND BEVERAGE SERVICE, EXCEPT SHIP STEWARDS

1. USOE Cluster: Personal Services

2. Civilian Title: Kitchen Supervisor (310.138)

3. Military Titles: (Kitchen Supervisor)
Army: Food Service Specialist (94B); Hospital Food Specialist (94F)
Navy: Mess Management Specialist (MS)
Air Force: Food Service Supervisor (62270); Diet Therapy Supervisor (62271)
Marine Corps: Food Service Technician (3381); Food Service Technician Specialist (3382)
Coast Guard: Subsistence Specialist (SS)

4. Composite Service Job Statement: Supervises or assists in supervision of operation and maintenance of any food service installation. Supervises and/or performs all phases of receipt and surveillance inspection of subsistence supplies. Plans menus, insures cleanliness of dining facility and equipment. Supervises cooks.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in food preparation, general accounting and bookkeeping.
b. Physical: None
c. Specific: High standards of cleanliness. Experience in food preparation, dietetics and record keeping.

6. Related Service Jobs:
   Army: Food Service Supervisor (94Z)
   Navy: Flight Attendant (8289)
   Air Force: Steward Specialist (74250)
   Marine Corps: Cook (3371)

HOSTESSES AND STEWARDS, FOOD AND BEVERAGE SERVICE, EXCEPT SHIP STEWARDS

1. USOE Cluster: Personal Services
2. Civilian Title: Steward/Stewardess (310.138)
3. Military Titles: (Steward)
   Army: Food Service Specialist (94B)
   Navy: Mess Management Specialist (MS)
   Air Force: Steward Specialist (74250)
   Coast Guard: Subsistence Specialist (SS)
4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in operation of facilities associated with open messes. Prepares dining rooms, snack bars, and recreational activities for use. Inventories property records. Maintains supplies and financial transactions.
5. Desirable Qualifications Summary:
   a. Academic Background: Courses in food preparation, general accounting, and bookkeeping.
   b. Physical: None.
   c. Specific: Must be 21 years old (U. S. Air Force). High standards of honesty and cleanliness.
6. Related Service Jobs:
   Army: Hospital Food Service Specialist (94F)
   Navy: Command Mess Management Specialist (MS-3511 through 3516)
   Air Force: Cook (62250)

CHEFS AND COOKS, LARGE HOTELS AND RESTAURANTS

1. USOE Cluster: Personal Services
2. Civilian Title: Sous Chef (313.131)
3. Military Titles: (Chef)
   Army: Food Service Supervisor (94Z); Enlisted Aid (00H)
   Navy: Mess Management Specialist (MS); Flag Officers' Mess (MS-3511); Command (MS-3516); Wardroom/General Mess (MS-3514); Galley/Pantry Watch Captain (MS-3515)
   Air Force: Food Service Supervisor (62270)
   Marine Corps: Cook (3371); Food Service Technician, (3381)
   Coast Guard: Subsistence Specialist (SS) (QC: 03)

4. Composite Service Job Statement: Supervises and coordinates activities of cooks and other workers engaged in preparing and cooking foodstuffs. Observes workers engaged in preparing, portioning, and garnishing foods to insure that methods of cooking and garnishing and sizes of portions are as prescribed. Gives instructions to cooking personnel in fine points of cooking. Cooks and carves meats, prepares dishes, and sauces.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in home economics and food preparation.
   b. Physical: None.
   c. Specific: High standard of cleanliness. Interest in food preparation.
6. Related Service Jobs:
   Air Force: Baker (62150); Diet Therapy Specialist (62251)
   Marine Corps: Cook, Specialist (3372); Food Service Technician, Specialist (3382)

CHEFS AND COOKS, LARGE HOTELS AND RESTAURANTS

1. USOE Cluster: Personal Services
2. Civilian Title: Baker (313.781)
3. Military Titles: (Baker)
   Army: Baker (94D)
   Navy: Mess Management Specialist (MS)
   Air Force: Baker (62150)
   Marine Corps: Baker (3311)
   Coast Guard: Subsistence Specialist (SS)

4. Composite Service Job Statement: Mixes and bakes ingredients according to recipes to produce breads, pastries, and other baked goods. Turns on and regulates temperatures of ovens. Checks progress of baking by appearance of goods and length of time in ovens.

5. Desirable Qualifications Summary:
   a. Academic Background: Home economics course and food preparation.
   b. Physical: None.
   c. Specific: High standards of cleanliness.
6. Related Service Jobs:
   Air Force: Cook (62250)

MISCELLANEOUS COOKS, EXCEPT DOMESTIC

1. USOE Cluster: Personal Services
2. Civilian Title: Cook (315.381)
3. Military Titles: (Cook)
   Army: Food Service Specialist (94B); Hospital Food Service Specialist (94F)
   Navy: Mess Management Specialist (MS)
   Air Force: Cook (62250)
   Marine Corps: Cook (3371)
   Coast Guard: Subsistence Specialist (SS)

4. Composite Service Job Statement: Prepares and cooks family-style meals. Cooks foodstuffs in quantities according to menu and number of persons to be served. May wash dishes or kitchen utensils. May order supplies and keep records and accounts. May serve meals.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in home economics and food preparation.
    b. Physical: None.
    c. Specific: High standards of cleanliness.

6. Related Service Jobs: None

MEATCUTTERS, EXCEPT IN SLAUGHTERING AND PACKING HOUSES

1. USOE Cluster: Personnel Services

2. Civilian Title: Butcher, Meat (316.781)

3. Military Titles: (Butcher)
    Army: Meat Cutter (94C)
    Navy: Commissary Store Meat Cutter (MS-3014)
    Air Force: Meat Cutter (61250)
    Coast Guard: Subsistence Specialist (SS) (QC: 05)

4. Composite Service Job Statement: Cuts and trims meat to size for display or as ordered by customer, using hand tools and power equipment, such as grinder, cubing machine, and powersaw. Cleans and cuts fish and poultry. May place meat in cardboard containers to be wrapped by other workers. May place meat on trays in display counter. May wrap and weigh meat for customers and collect money for sales.

5. Desirable Qualifications Summary:
    a. Academic Background: None
    b. Physical: None
    c. Specific: High standards of cleanliness.

6. Related Service Jobs:
    Navy: Mess Management Specialist (MS)

BARBERS

1. USOE Cluster: Personal Services

2. Civilian Title: Barber (330.371)

3. Military Titles: (Barber)
    Navy: Barber (SH 3122)

4. Composite Service Job Statement: Cuts, trims and tapers hair, using clippers, comb, and scissors. Applies lather and shaves beard or shapes hair contour on temple and neck, using razor. Performs other services such as applying hair lotion, shampooing, or styling hair.

5. Desirable Qualifications Summary:
    a. Academic Background: None
    b. Physical: Manual Dexterity
    c. Specific: Course or experience in barbering.

6. **Related Service Jobs:**
   Navy: Ship's Serviceman (SH)

EMBALMERS AND RELATED

1. USOE Cluster: Personal Services
2. Civilian Title: Embalmer (338.381)
3. Military Titles: (Embalmer)
   Navy: Embalming Technician (HM-8496)

4. Composite Service Job Statement: Prepares bodies for interment in conformity with legal requirements. Washes and dries body, using germicidal soap and towels or hot air drier. Packs body orifices with cotton saturated with embalming fluid to prevent escape of gases or waste matter. Makes incision in arm or thigh, using scalpel, inserts pump tubes into artery, and starts pump that drains blood from circulatory system and replaces blood with embalming fluid. Closes incisions, using needle and suture. Reshapes or reconstructs disfigured or maimed bodies, using such materials as clay, cotton, plaster of paris, and wax. Applies cosmetics to impart lifelike appearance. Dresses body and places body in casket.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physiology and chemistry.
   b. Physical: None
   c. Specific: None.

6. Related Service Jobs:
   Army: Memorial Activities Specialist (57F)
   Navy: Hospital Corpsman (HM)

HOSTS/HOSTESSES AND STEWARDS/STEWARDESSES

1. USOE Cluster: Personal Services
2. Civilian Title: Airplane Flight Attendant (352.878)
3. Military Titles: (In-Flight Attendant)
   Navy: Flight Attendant (8289)
   Air Force: In-Flight Passenger Service Specialist (60550A)

4. Composite Service Job Statement: Renders variety of personal services conducive to safety and comfort of aircraft passengers during flight. Explains use of safety equipment, such as seat belts, oxygen masks, and life jackets. Serves previously prepared meals and beverages. Observes passengers to detect signs of discomfort, and issues palliatives to relieve them of ailments, such as airsickness and insomnia. Answers questions regarding performance of aircraft, stopovers, and flight schedules. Performs other personal services, such as distributing reading material.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. **Related Service Jobs:** None.

UNLICENSED BIRTH ATTENDANTS AND PRACTICAL NURSES

1. USOE Cluster: Health

2. Civilian Title: First-Aid Attendant (354.878)

3. Military Titles: (Corpsman/Medic)
   Army: Medical Specialist (91B)
   Navy: Medical Field Service Technician (HM-8404)
   Air Force: Pararescue/Recovery Specialist (92350)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Renders first aid and subsequent treatment to injured or ill personnel. Sterilizes, disinfects, anoints, and bandages minor cuts and burns. Applies artificial respiration or administers oxygen, in cases of suffocation and asphyxiation. Administers medications, such as aspirin or antiseptic solution, to relieve pain or prevent infection until patient can receive professional care, and gives prescribed medicines and treatments for illness. Aids physicians in setting and dressing broken bones. During emergency situations may perform minor surgery. May administer injections.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, physiology, chemistry and hygiene.
   b. Physical: None
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM); Submarine Medicine Technician (HM-8403); Medical Service Technician (HM-8424-8425)

ATTENDANTS, HOSPITALS, MORGUES AND RELATED HEALTH SERVICES

1. USOE Cluster: Health

2. Civilian Title: Nurse Aid (355.878)

3. Military Titles: (Corpsman/Medic)
   Army: Medical Specialist (91B); Neuropsychiatric Aid (91F)
   Navy: Hospital Corpsman (HM)
   Air Force: Medical Service Specialist (90250)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Assists in care of hospital patients, under direction of nursing and medical staff. Bathes, dresses and undresses patients. Serves and collects food trays and feeds patients requiring help. Transports patients to treatment units, using wheelchair or wheeled carriage, or assists them to walk. Takes and records temperature, pulse and respiration rates, and food and liquid intake and output, as directed. Performs any one or a combination of duties such as: cleans, sterilizes, stores, prepares, and issues dressing packs, treatment trays, and other supplies; cleans, sterilizes, and assembles into packs, supplies and instruments used in surgery, and maintains cleanliness and order of operating rooms.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, general science, hygiene and physiology.
   b. Physical: None.
   c. Specific: Desire to help those in need.

6. Related Service Jobs:
Army: Operating Room Specialist (91D)
Air Force: Operating Room Specialist (90252); Environmental Health Specialist (90750); Radiology Specialist (90350)

ATTENDANTS, HOSPITALS, MORGUES AND RELATED HEALTH SERVICES

1. USOE Cluster: Health

2. Civilian Title: Psychiatric Aid (355.878)

3. Military Titles: (Psychiatrist's Assistant)
Army: Neuropsychiatric Specialist (91F)
Navy: Neuropsychiatry Technician (HM-8485)
Air Force: Psychiatric Ward Specialist (91451)
Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Assists in care and treatment of neuropsychiatric patients, working under direction of nursing and medical staff. Accompanies patients to and from wards for examination and treatment, and administers prescribed medications. Observes patients to detect unusual behavior, and aids or restrains them to prevent injury to themselves or other patients. May escort patients off grounds for medical or dental treatment, to library for selection of reading materials, and to church services, motion pictures, or athletic contests.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in biology, chemistry, hygiene, psychology and physiology.
b. Physical: None.
c. Specific: Pleasant disposition and desire to help those in need.

6. Related Service Jobs:
Navy: Occupational Therapy Technician (HM-8487); Hospital Corpsman (HM)
Air Force: Psychiatric Clinic Specialist (91450)

ANIMAL CARE

1. USOE Cluster: Personal Services

2. Civilian Title: Veterinary-Hospital Attendant (356.874)

3. Military Titles: (Veterinary Assistant)
Army: Veterinary Specialist (91T)
Air Force: Veterinary Specialist (90850); Animal Specialist (90831)

4. Composite Service Job Statement: Cares for animals under treatment in animal hospital for disease, injury or production of serums. Leads, wheels, or carries animal from quarters to treatment room. Lifts animal onto treatment table and applies restraints or holds it during treatment. Sterilizes surgical instruments and other equipment, such as rubber gloves, syringes, and test tubes, using germicides and autoclave. Administers anesthetic, medications, and prescribed nursing care. Measures, mixes, grinds, and chops specified ingredients to prepare food and feed animals.

5. Desirable Qualifications Summary:
    - a. Academic Background: Courses in biology, chemistry, and animal husbandry.
    - b. Physical: None.
    - c. Specific: None.
6. Related Service Jobs: None

LAUNDERING

1. USOE Cluster: Personal Services
2. Civilian Title: Laundryworker II (361.885)
3. Military Titles: (Laundryman)
    - Army: Laundry, Bath and Impregnation Specialist (57E)
    - Navy: Laundryman (SH-3155)
    - Air Force: Supply Services Specialist (61150)
    - Coast Guard: Hygiene Equipment Operator (1171)
4. Composite Service Job Statement: Operates, and performs preventive maintenance on bath, laundry, fumigation, and decontamination equipment. Launders, impregnates, decontaminates, and presses clothing and related articles in mobile laundry units, ships, and at fixed installations. May install mobile laundry units where permanent laundry facilities are not available.
5. Desirable Qualifications Summary:
    - a. Academic Background: None.
    - b. Physical: None.
    - c. Specific: None.
6. Related Service Jobs: None.

DRY CLEANING

1. USOE Cluster: Personal Services
2. Civilian Title: Dry Cleaner (362.782)
3. Military Titles: (Dry Cleaner Worker)
    - Army: Laundry, Bath and Impregnation Specialist (57E)
    - Navy: Laundryman and Dry Cleaner (SH-3154)
    - Air Force: Supply Services Specialist (61150)
4. Composite Service Job Statement: Dry cleans, irons, and presses clothing and flatwork, using extractors, tumblers, presses, and flatwork ironers. Dry cleans, spots, drys and presses garments, using solvents, dry cleaning machines, and pressers.
5. Desirable Qualifications Summary:
    - a. Academic Background: None.
    - b. Physical: None.
    - c. Specific: None.

6. Related Service Jobs:
Navy: Laundryman (SH-3155); Ship's Serviceman (SH)
Marine Corps: Hygiene Equipment Operator (1171)

APPAREL AND FURNISHING SERVICE

1. USOE Cluster: Personal Services

2. Civilian Title: Dry-Cleaning Superintendent (369.138)

3. Military Titles: (Dry Cleaning Supervisor)
Marine Corps: Hygiene Equipment Chief (1179)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in washing and dry cleaning apparel. Instructs personnel in the identification of synthetics, silk, wool, cotton fibers, blends, weaves, control of effects of bleach and all chemicals dealing with laundry and dry cleaning plants. Assigns duties to workers. Reviews production and accounting records to determine cost levels of operation.

5. Desirable Qualifications Summary:
a. Academic Background: None
b. Physical: None
c. Specific: None

6. Related Service Jobs:
Army: Laundry and Bath Specialist (57E)
Navy: Ship's Serviceman (SH)
Air Force: Supply Services Specialist (61150)

GUARDS AND PATROLLERS

1. USOE Cluster: Public Services

2. Civilian Title: Correction Officer (372.868)

3. Military Titles: (Corrections Guard)
Army: Correctional Specialist (95C)
Navy: Corrections Man (9548)
Air Force: Corrections Specialist (81251)
Marine Corps: Corrections Man (5831)

4. Composite Service Job Statement: Performs duties incident to the security, rehabilitation, accounting and control of confined personnel. Observes conduct and behavior of inmates to prevent disturbances and escapes. Inspects locks, window-bars, grills, doors and gates for tampering. Searches inmates and cells for contraband articles. Guards and directs inmates during work assignments. Patrols assigned areas for evidence of forbidden activities, infraction of rules, and unsatisfactory attitudes or adjustment of prisoners. Reports observations to superior. Furnishes recommendation concerning clemency, restoration to duty, or other appropriate disposition of prisoners.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in law enforcement and psychology.
   - b. Physical: None.
   - c. Specific: Must be at least 20 years of age and possess a high degree of maturity and emotional stability. (Navy/Army/Air Force)

6. Related Service Jobs:
   - Army: Military Policeman (95B)
   - Navy: Personnelman (2616)
   - Air Force: Law Enforcement Specialist (81250); Security Specialist (81150)

GUARDS AND PATROLLERS

1. USOE Cluster: Public Services

2. Civilian Title: Guard I (372.868)

3. Military Titles: (Guard)
   - Army: Military Policeman (95B)
   - Navy: Security Guard (9545)
   - Air Force: Security Specialist (81150)
   - Marine Corps: Guard (8151)

4. Composite Service Job Statement: Enforces, or supervises the enforcement of, security measures for protecting lives and property. Patrols assigned area or sits or stands at post to watch for suspicious persons and activities. Warns violators of rule infractions, such as loitering or carrying forbidden articles. Reports irregular activities or apprehends or expels miscreants. Keeps order to prevent disturbances. Answers questions and gives directions on request. May examine credentials at entrance. Provides security for restricted areas. Controls entry and exit of personnel, vehicles, and other equipment at access points to restricted areas. Patrols areas on foot and using vehicle. Enforces general and special orders and regulations applicable to the area operations. May include vessels, harbors, ports, and waterfront facilities.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in law enforcement.
   - b. Physical: None.
   - c. Specific: None.

6. Related Service Jobs:
   - Army: Correctional Specialists (95C)
   - Navy: Sentry Dog Handler (9541); Master at Arms (MA)
   - Air Force: Law Enforcement Specialist (81250); Correction Specialist (81251)

FIREFIGHTERS, FIRE DEPARTMENT

1. USOE Cluster: Public Services

2. Civilian Title: Fire Marshal (373.168)

3. Military Titles: (Fire Marshal)
   Army: Firefighter (51M)
   Navy: Damage Control Specialist (HT-4961)
   Air Force: Fire Protection Supervisor (57170)
   Marine Corps: Fireman (8811)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Supervises and coordinates activities of firefighting personnel. Inspects equipment and premises to insure adherence to fire regulations. Inspects and orders replacement or servicing of firefighting equipment such as sprinklers, hoses, and extinguishers. Issues permits for storage and use of hazardous or flammable materials. Directs firefighting and rescue activities according to knowledge of accepted procedures.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry.
   b. Physical: None.
   c. Specific: High degree of self-reliance, ingenuity and calmness under stress.

6. Related Service Jobs:
   Navy: Hull Maintenance Technician (HT)

FIREFIGHTERS, FIRE DEPARTMENT

1. USOE Cluster: Public Services

2. Civilian Title: Fire Fighter (373.884)

3. Military Titles: (Fire Fighter)
   Army: Firefighter (51M)
   Navy: Hull Maintenance Technician (HT)
   Air Force: Fire Protection Specialist (57150)
   Marine Corps: Fireman (8811)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Controls and extinguishes fires, protects life and property, and maintains equipment. Responds to fire alarms and other emergency calls. Selects hose nozzle, depending on type of fire, and directs stream of water or chemicals onto fire. Positions and climbs ladders to gain access to upper levels of buildings or to assist individuals from burning structures. Creates openings in buildings for ventilation or entrance, using axe, chisel, and crowbar. May administer first aid and artificial respiration to persons overcome by fire and smoke. Inspects buildings for fire hazards and compliance with fire prevention ordinances. Participates in drills, demonstrations, and courses in hydraulics, pump operation and maintenance, and firefighting techniques.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in first aid.
   b. Physical: None.
   c. Specific: Self-reliance and ingenuity. Ability to remain calm under stress.

6. Related Service Jobs:
   Air Force: Pararescue/Recovery Specialist (92350)
   Marine Corps: Aircraft Crash, Fire and Rescue Man (7051)

FIREFIGHTERS, FIRE DEPARTMENT

1. USOE Cluster: Public Services
2. Civilian Title: Fire Fighter, Crash (373.884)
3. Military Titles: (Aircraft Crash and Rescue Man)
   Army: Firefighter (51M)
   Navy: Aviation Boatswain's Mate (AB)
   Air Force: Fire Protection Specialist (57150)
   Marine Corps: Aircraft Crash, Fire and Rescue Man (7051)

4. Composite Service Job Statement: Responds to actual or potential air-crash emergencies to prevent or extinguish fires and rescue plane crew and passengers. Drives to scene of crash or to end of runway where disabled craft is expected to land. Sprays chemical foam onto runway surface to minimize danger of explosion on impact and water or chemical agents onto craft after landing. Participates in removal of trapped or injured crew members, using flame-cutting equipment if necessary to gain entry to damaged craft. Renders first aid to injured.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: None.
6. Related Service Jobs:
   Navy: Hull Technician (HT)
   Marine Corps: Fireman (8811)

POLICE OFFICERS AND DETECTIVES, PUBLIC SERVICE

1. USOE Cluster: Public Services
2. Civilian Title: Detective (375.268)
3. Military Titles: (Investigator)
   Army: Assistant Criminal Investigator (95D)
   Navy: Master at Arms (MA)
   Air Force: Special Investigations and Counterintelligence Specialist (82130)
   Marine Corps: Criminal Investigator (5821)
   Coast Guard: Investigator (QC: X1)

4. Composite Service Job Statement: Carries out investigations to prevent crimes or solve criminal cases. Investigates known or suspected criminals or facts of particular case to detect planned criminal activity or clues. Frequents known haunts of criminals and familiarizes him/herself with criminals to determine their habits, associates, characteristics, aliases, and other personal information. Records such information and reports it to commanding officer. Reports any occurrence or information regarding planned or committed crime that comes to his/her attention. When assigned to a specific case, investigates circumstances of crime and questions witnesses. Examines scene of crime to obtain clues and gather evidence. Investigates suspected persons to establish their guilt or innocence. Reports progress of investigation. Arrests or assists in arrest of criminals or suspects. Prepares assigned cases for court, according to formalized procedures.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in law enforcement.
   b. Physical: Must be U. S. citizen and 21 years of age or older (Marine Corps). Must be 19 years of age or older (Army). Must be in pay grade E-6 or above (Navy).
   c. Specific: None.

6. Related Service Jobs:
   Army: Military Policeman (95B)
   Air Force: Law Enforcement Specialist (81250)
   Marine Corps: Military Policeman (5811)

POLICE OFFICERS AND DETECTIVES, PUBLIC SERVICE

1. USOE Cluster: Public Services

2. Civilian Title: Police Officer (375.268)

3. Military Titles: (Military Policeman)
   Army: Military Policeman (95B)
   Navy: Master at Arms (MA)
   Air Force: Law Enforcement Specialist (81250)
   Marine Corps: Military Policeman (5811); Marijuana Detector Dog Handler (5812); Accident Investigator (5813)

4. Composite Service Job Statement: Performs foot or motorized patrol of assigned area to enforce laws and protect life and property. Investigates unusual occurrences and disruptive events. Controls vehicular and pedestrian traffic by use of hand, light, and whistle signals. Verifies authenticity of passes and credentials. Conducts routine inspections to determine condition of facilities. Prepares reports of infractions of regulations. Testifies at legal proceedings as required. May use dogs in the performance of duties.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in law enforcement.
   b. Physical: Must be 20 years of age and 5'9" (Air Force). Marine Corps: Must be 19 years of age and high school graduate, 5'8" tall, weight proportionate to height. No prior history of mental disorders (Marine Corps). Must be in pay grade E-6 or higher (Navy).
   c. Specific: None.

6. Related Service Jobs:
   Army: Correctional Specialist (95C)
   Navy: Sentry Dog Handler (9541); Security Guard (9545)
   Air Force: Security Specialist (81150)

PROTECTIVE SERVICE

1. USOE Cluster: Marine Science

2. Civilian Title: Skin Diver (379.884)

3. Military Titles: (Scuba Diver)
   Army: Diver (00B)
   Navy: Scuba Diver (5345)
   Marine Corps: Reconnaissance Man (8653); Scuba Man (9952) Parachutist/Scuba Man (9953)
   Coast Guard: Scuba Diver (QC: E4)

4. Composite Service Job Statement: Performs various underwater jobs wearing insulated suits and pressure tanks containing air supply. Swims from boat, dock or shore to job site.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None
   c. Specific: Self-reliance and ingenuity. Know laws of diving physics.

6. Related Service Jobs:
   Navy: Diver Second Class (5343)
   Air Force: Pararescue/Recovery Specialist (92350)

BUILDING AND RELATED SERVICE

1. USOE Cluster: Personal Services

2. Civilian Title: Exterminator (389.884)

3. Military Titles: (Exterminator)
   Navy: Preventive Medicine Technician (HM-8432)
   Air Force: Entomology Specialist (56650)

4. Composite Service Job Statement: Performs work for implementing, conducting and evaluating programs and plans for effective control and prevention of plant and animal pest species. Controls test operations required for control of pest species of insects and other arthropods, field and commensal rodents, predatory animals, wood destroying fungi. Collects specimens of disease and germ bearing and destructive pests, such as mosquitoes, flies, termites and rodents. Applies toxic pesticides to affected areas. Selects appropriate toxic solution for control and prevention of pests.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, chemistry, agriculture, entomology and hygiene.
   b. Physical: None
   c. Specific: Experience in hospitals.

6. Related Service Jobs:
   Army: Chemical Operations Assistant (54A)
   Coast Guard: Hospital Corpsman (HM)

TAB 4/5

FARMING, FISHERY, FORESTRY AND RELATED OCCUPATIONS

This category includes occupations concerned with growing, harvesting, catching, and gathering land and aquatic plant and animal life and the products thereof; and occupations concerned with providing services in support of these activities.

NOTE: There are no service occupations identified under category 4.

PROCESSING OCCUPATIONS

This category includes occupations concerned with refining, mixing, compounding, chemically treating, heat treating, or similarly working materials and products. Knowledge of a process and adherence to formulas or other specifications are required in some degree. Vats, stills, ovens, furnaces, mixing machines, crushers, grinders, and related equipment or machines are usually involved.

MOLDERS, COREMAKERS AND RELATED

1. USOE Cluster: Manufacturing

2. Civilian Title: Molder (518.381)

3. Military Titles: (Molder)
   Navy: Molder (ML)

4. Composite Service Job Statement: Forms, molds and cores, using items such as handtools, power tools, and flasks; applying knowledge of metal characteristics, molding sand, and pouring procedures; working in shore station and aboard ship foundries. Prepares, heats, and pours castings of ferrous, nonferrous, and alloy metals; cleans castings; pours bearings; and performs organizational and intermediate maintenance on assigned equipment and in support of other ships.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in foundry, machine shop, and practical mathematics.
   b. Physical: None
   c. Specific: Physical strength. Mechanical aptitude. Interest in working with hand and power tools.

6. Related Service Jobs:
   Navy: Hull Maintenance Technician (HT); Steelworker (SW); Aviation Structural Mechanic (Structures) (AMS)

DISTILLING

1. USOE Cluster: Manufacturing

2. Civilian Title: Oxygen-Plant Operator (552.782)

3. Military Titles: (Oxygen-Plant Operator)
   Army: Oxygen-Acetylene Production Specialist (53B); Carbon Dioxide-Hydrogen Production Specialist (53C)
   Navy: High/Low Pressure Cryogenic Technician (MM-4282/4283)
   Air Force: Cryogenic Fluid Production Specialist (54450)
   Marine Corps: Cryogenics Equipment Operator (6075)

4. Composite Service Job Statement: Controls any one or a combination of equipment, such as electrolytic cells, gas compressors, gas generators, and combustion cylinders, to produce hydrogen, oxygen, or nitrogen gas by different processes for industrial or therapeutic use: Charges electrolytic cells, gas compressors, generators and combustion cylinders with distilled water, air, iron ore, caustic soda, and natural gas using water hose and power hoist. Controls rate of gas production by regulating electric current, compressor air purifier, steam flow, and combustion cylinder pressures from control panels. Observes pressure, flow, and temperature gages throughout process to insure the gasses are being separated, compressed, and liquified according to processing standards. Turns valves to release excess gas pressure from system or circulate water through generator jacket and maintain processing gasses at specified temperature and pressure. Tests purity of gas, such as oxygen, at various stages using burette. Compares volume of gas sample with volume remaining after combustion or removal of gas, such as oxygen or carbon dioxide using electrically heated wire or Orsat analyzer. Adjusts equipment according to test results and knowledge of processes and equipment to compensate for atmospheric conditions and conditions of equipment such as decreasing efficiency of column

due to frost accumulation. Turns valves that transfer liquid gas from generator through driers, heaters and coolers to purify and accumulate gas in storage tanks or cylinders at specified temperature and pressure. Measures moisture content of gas, such as hydrogen or nitrogen, coming from driers using hydrometer or hygrometer. Records results of gage readings and tests. Removes moisture from drying agent using vacuum pump and electric heater. Directs workers engaged in process of flushing generators with water and removing sludge. Replaces defective valves and removes carbon from valves using handtools and air hose to clean and repair equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics (Air Force).
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Machinist's Mate (MM)

PROCESSING OF CHEMICALS, PLASTICS, SYNTHETICS, RUBBER, PAINT AND RELATED

1. USOE Cluster: Manufacturing

2. Civilian Title: Carbon-Dioxide Operator I (559.782)

3. Military Titles: (Carbon Dioxide Operator)
   Army: Carbon Dioxide-Hydrogen Production Specialist (53C)
   Navy: High and Low Pressure Cryogenic Technician (MM-4282-83)

4. Composite Service Job Statement: Operates plant equipment to manufacture carbon dioxide, dry ice and hydrogen. Prepares site for equipment installation. Inspects, tests, handles and stores gas cylinders. Performs preventive maintenance and makes minor adjustments on plant and auxiliary equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, machine shop, electricity and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in garage, power plant or machine shop.

6. Related Service Jobs:
   Army: Oxygen-Acetylene Specialist (53B)
   Navy: Machinist's Mate (MM)
   Air Force: Cryogenic Fluids Production Specialist (54450)

TAB 6

MACHINE TRADES OCCUPATIONS

This category includes occupations concerned with feeding, tending, operating, controlling, and setting up machines to bore, mill, abrade, print, and similarly work such materials as metal, paper, wood, and stone. Throughout this category, overall relationship of the worker to the machine is of prime importance. At the more complex levels, the important aspects of the work include understanding machine functions, reading blueprints, making mathematical computations, and exercising judgment to attain conformance to specifications. Coordination of the eyes and hands is the most significant factor at the lower levels. Disassembly, repair, reassembly, installation, and maintenance of machines and mechanical equipment, and weaving, knitting, spinning, and similarly working textiles are included in this category.

MACHINISTS AND RELATED

1. USOE Cluster: Manufacturing

2. Civilian Title: Machinist I (600.280)

3. Military Titles: (Machinist)
   Army: Machinist (44E)
   Navy: Machinery Repairman (MR)
   Air Force: Machinist (53150)
   Marine Corps: Repair Shop Machinist (2161)
   Coast Guard: Machinery Technician (MK); Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Sets up and operates metalworking machines to fabricate, rework, and repair metal parts using metalworking machines, such as lathes, grinders, milling machines, drill presses and shapers. Works from sketches, diagrams, blueprints, written specifications or oral instructions. Measures broken or worn parts, using calipers, gages, and micrometers. Assembles and fits machine parts.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in machine shop and practical mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Mechanical aptitude.

6. Related Service Jobs:
   Air Force: Sheet Metal Specialist (53350); Air Frame Repair Specialist (53450)

MACHINISTS AND RELATED

1. USOE Cluster: Manufacturing

2. Civilian Title: Maintenance Machinist (600.280)

3. Military Titles: (Equipment Mechanic)
   Army: Engineer Equipment Repairman (62B)
   Navy: UNREP Equipment Mechanic (MM-4295)

4. Composite Service Job Statement: Diagnoses causes of malfunctions in hydro-pneumatic and electro-hydraulic equipment used to transfer supplies. Starts machine, observes operation, listens for sounds indicating defective parts, and inspects machine with test instruments to determine malfunction. Dismantles and repairs hydraulic power supplies, circuits, motors, valves and other components, using handtools such as wrenches and screwdrivers. Examines parts for defects. Assembles machine and starts machine to verify correction of malfunction.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, machine and automobile shop.
   b. Physical: Normal color discrimination.
   c. Specific: May require appropriate security clearance.

6. Related Service Jobs:
   Army: QM Heavy Equipment Repairman (63K)
   Navy: Machinist's Mate (MM); Engineman (EN)

ABRADING OCCUPATIONS

1. USOE Cluster: Manufacturing
2. Civilian Title: Tool Grinder II (603.885)
3. Military Titles: (Tool Grinder)
   Navy: Tool and Equipment Technician (BU-5908)

4. Composite Service Job Statement: Tends abrasive wheel that sharpens and smooths cutting edges of sawmill and building trades shop equipment. Positions sawblade and cutting tools against grinder to sharpen and smooth tool edge. Gums and sets saw blades and splices band saw blades. Maintains list of manufacture's spare parts and arranges for stocking and procurement of parts.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in machine shop and mechanical drawing.
   b. Physical: None.
   c. Specific: Mechanical aptitude.
6. Related Service Jobs:
   Army: Machinist (44E)
   Navy: Machinery Repairman (MR)

FORGING

1. USOE Cluster: Manufacturing
2. Civilian Title: Forge-Shop Supervisor (612.131)
3. Military Titles: (Forge Shop Supervisor)
   Army: Metalworking Foreman (44Z)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in machining, welding, forging, forming, and related activities of metalworking service shop or section. Observes work methods and corrects faulty procedures and processes by instruction and demonstration of proper methods. Supervises final inspection and approves disposition of completed work.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: None.
6. Related Service Jobs:
   Army: Machinist (44E)
   Navy: Patternmaker (PM)
   Air Force: Metal Working Superintendent (53690)

MISCELLANEOUS METALWORKING

1. USOE Cluster: Manufacturing
2. Civilian Title: Forge Helper (619.886)

3. Military Titles: (Forge Helper)
Army: Metal Body Repairman (44B)

4. Composite Service Job Statement: Assists in setting up, operating and maintaining all types of tools and equipment used in machining, welding, forging, and metal body repair. Cleans and lubricates tools and equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
Army: Welder (44C)

MOTORIZED VEHICLE AND ENGINEERING EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Automobile Mechanic (620.281)

3. Military Titles: (Mechanic)
Army: Wheel Vehicle Mechanic (63B); Track Vehicle Mechanic (63C); Fuel and Electrical Systems Repairman (63G); Automotive Repairman (63H); Quartermaster Heavy Equipment Repairman (63K); Chemical Equipment Repairman (54D)
Navy: Engineman (EN); Construction Mechanic (CM); Aviation Support Equipment Technician (AS) (Electrical-ASE; Hydraulics and Structures-ASH; Mechanical-ASM)
Air Force: Base Maintenance Equipment Repairman (47250); Special Vehicle Repairman (47251); General Purpose Vehicle Repairman (47350)
Marine Corps: Organizational Automotive Mechanic (3521); Field Automotive Mechanic (3522); Vehicle Recovery Man (3523); Fuel and Electrical Systems Repairman (3524); Aircraft Maintenance Ground Support Equipment Mechanic (6072)
Coast Guard: Machinery Technician (MK); Aviation Machinist Mate (AD)

4. Composite Service Job Statement: Inspects, maintains and repairs internal combustion engine power vehicles. Analyzes malfunctions by visual and/or auditory examination, operation, and use of appropriate test equipment. Removes, replaces, repairs and overhauls vehicle systems such as mechanical, electrical, air conditioning, fuel-air, anti-pollution, and emission control systems, power train, brakes, steering, and suspension systems. Performs preventive and special maintenance.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automotive mechanics, electricity, physics and practical mathematics.
   b. Physical: Normal color discrimination, eye-hand coordination, and manual dexterity (Army).
   c. Specific: Mechanical aptitude and interest. Experience in automotive repair.

6. Related Service Jobs:

Army: Quartermaster Light Equipment Repairman (63J)

Navy: Aviation Machinist's Mate (AD)

Marine Corps: Engineer Equipment Mechanic (1341); Tracked Vehicle Repairman (2141, 2142, 2144)

MOTORIZED VEHICLE AND ENGINEERING EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Automobile Mechanic, Chief (620.131)

3. Military Titles: (Chief Mechanic)

Army: Mechanical Maintenance Supervisor (63Z)

Navy: Engineman (EN); Aviation Support Equipment Technician (AS); Construction Mechanic (CM)

Air Force: Special Vehicle and Base Maintenance Equipment Repair Supervisor (47271); General Purpose Vehicle and Body Maintenance Supervisor (47371)

Marine Corps: Engineer Equipment Chief (1349); Motor Transport Maintenance Chief (3529)

Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Supervises automotive maintenance operation and performs technical inspection of engine, powertrain, and chassis components before and after repair or overhaul. Performs detailed diagnosis and technical inspection of all malfunctioning equipment. Plans and organizes work schedules. Instructs and assists lower skilled personnel. Supervises or prepares technical studies, evaluations, special reports, and records pertaining to maintenance operations.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in automotive mechanics, electricity, physics and practical mathematics.

b. Physical: None.

c. Specific: Experience in automotive repair.

6. Related Service Jobs:

Army: Wheel Vehicle Mechanic (63B)

Navy: Machinist's Mate (MM); Aviation Machinist's Mate (AD)

MOTORIZED VEHICLE AND ENGINEERING EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Construction-Equipment Mechanic (620.281)

3. Military Titles: (Construction Equipment Mechanic)

Army: Engineer Equipment Repairman (62B)

Navy: Construction Mechanic (CM)

Air Force: Base Maintenance Equipment Repairman (47250)

Marine Corps: Engineer Equipment Mechanic (1341)

Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Maintains and repairs diesel and gasoline engines for automotive and heavy construction equipment. Adjusts and repairs ignition, fuel, electrical, hydraulic and steering systems. Performs major overhauls on engines and transmissions. Dismantles and reassembles equipment, using hoists, jacking equipment and handtools.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automotive shop, electrical shop, machine shop, mathematics and physics.
   b. Physical: None.
   c. Specific: Mechanical aptitude. Experience as machinist or automobile mechanic.

6. Related Service Jobs:
   Army: Track Vehicle Mechanic (63C)
   Navy: Aviation Support Equipment Technician (AS); Aviation Machinist's Mate (AD); Engineman (EN)

MOTORIZED VEHICLE AND ENGINEERING EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Engineering-Equipment Mechanic (620.281)
3. Military Titles: (Engineering-Equipment Mechanic)
   Army: Engine Equipment Repairman (62B)
   Navy: Construction Mechanic (CM)
   Air Force: Base Maintenance Equipment Repairman (47250)
   Marine Corps: Engineer Equipment Mechanic (1341)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Maintains and rebuilds earth-moving and support type heavy equipment such as bulldozers, power shovels, cranes, skids, and wheel mounted vehicles. Analyzes malfunctions and rebuilds, repairs or adjusts equipment such as bulldozers, power shovels, cranes and wheeled vehicles. Disassembles, repairs, adjusts, cleans and installs new or rebuilt components or assemblies to specified tolerance, using hoists, hand and power wrenches, screw drivers and pliers. Inspects parts for damage or wear. Verifies clearances and dimensions of bearings, shafts and bushings using gages such as calipers and micrometers.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, physics electricity, automotive mechanics or other shop work.
   b. Physical: Normal color discrimination.
   c. Specific: Experience as machinist, millwright or auto mechanic.

6. Related Service Jobs:
   Army: Track Vehicle Mechanic (63C)
   Navy: Aviation Boatswain's Mate (AB)
   Air Force: Special Vehicle Repairman (46251)
   Marine Corps: Tracked Vehicle Repairman (2141, 2142, 2144)

MOTORIZED VEHICLE AND ENGINEERING EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Transmission Mechanic (620.281)
3. Military Titles: (Transmission Mechanic)
   Army: Automotive Repairman (63H)
   Navy: Automatic Transmission/Hydraulic Systems Mechanic (CM-5801)
   Marine Corps: Field Automotive Mechanic (3522)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Repairs manual or automatic transmissions in automobiles, buses, trucks and other automotive vehicles. Raises automotive vehicle, using jacks or hoists, and removes transmission. Disassembles, replaces broken or worn parts on transmission units and reassembles, using mechanic's hand tools. Adjusts and tests operation.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in auto mechanics, mathematics and physics.
   b. Physical: None.
   c. Specific: Experience as machinist or automobile mechanic. Mechanical aptitude.
6. Related Service Jobs:
   Army: Wheel Vehicle Mechanic (63B); Track Vehicle Mechanic (63C)
   Navy: Construction Mechanic (CM)
   Air Force: Base Maintenance Equipment Repairman (47250); Special Vehicle Repairman (47251); General Purpose Vehicle Repairman (47350)

MOTORIZED VEHICLE AND ENGINEERING EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Mechanic, Endless Track Combat Vehicle (620.381)
3. Military Titles: (Tracked Vehicle Mechanic)
   Army: Tracked Vehicle Mechanic (63C)
   Marine Corps: Tracked Vehicle Repairman (2141, 2142, 2144); Tracked Vehicle Technician (2149); Tracked Vehicle Chief (2193)

4. Composite Service Job Statement: Repairs and maintains endless track combat vehicles. Visually observes, or uses test equipment or operates vehicle, to diagnose malfunctions. Repairs or replaces complete engine or faulty parts and re-installs in vehicle using precision and other required tools. Prepares and maintains maintenance records.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in automotive mechanics.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Army: Wheel Vehicle Mechanic (63B)
   Navy: Construction Mechanic (CM)
   Air Force: Base Maintenance Equipment Repairman (47250)
   Marine Corps: Engineer Equipment Mechanic (1341); Engineer Equipment Chief (1349)

AIRCRAFT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Supervisor, Aircraft Maintenance (621.131)
3. Military Titles: (Aircraft Maintenance Supervisor)
   Army: Aircraft Maintenance Senior Sergeant (67Z)
   Navy: Master Chief Aircraft Maintenanceman (AFCM)
   Air Force: Aircraft Maintenance Superintendent (43191); Aircraft Engine Superintendent (43291)
   Marine Corps: Aircraft Maintenance Chief (6019); Aircraft Airframes Maintenance Chief (6059); Helicopter Maintenance Chief (6119)
   Coast Guard: Aviaton Machinist's Mate (AD); Aviation Electrician's Mate (AE); Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Supervises and coordinates activities of aircraft and engine mechanics engaged in maintaining and repairing aircraft and aircraft engines. Plans and lays out maintenance shops to obtain maximum use of personnel, equipment, and facilities. Coordinates workflow, assigns work to appropriate shop or section, and instructs subordinates in proper work techniques and procedures. Supervises preparation of maintenance inspection, training, supply forms, requisitions, records, and reports.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry, machine shop, and mechanics.
   b. Physical: Normal color discrimination required.
   c. Specific: May require appropriate security clearance. High degree of mechanical aptitude.

6. Related Service Jobs: None.

AIRCRAFT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Aircraft-and-Engine Mechanic (621.281)
3. Military Titles: (Aircraft Mechanic)
   Army: 01U6 Airplane Repairman (67B); U-IA Airplane Repairman (67C); U8/U21 Airplane Repairman (67G); OV-I Airplane Repairman (67H); OH13/OH23 Helicopter Repairman (67M); UH-I Helicopter Repairman (67N); CH47 Helicopter Repairman (67U); OH6/0H58 Helicopter Repairman (67V); CH54 Helicopter Repairman (67X); AH-IG Helicopter Repairman (67Y); Aircraft Turbine Engine Repairman (68B); Aircraft Powertrain Repairman (68D); Aircraft Rotor and Propeller Repairman (68E)

Navy: Aviation Machinist's Mate (Jets-ADJ; Reciprocating-ADR); Aviation Electrician's Mate (AE); Aviation Structural Mechanic (AM); Aircraft Organizational Maintenance and Systems Technicians (8301 thru 8382); Aviation Support Equipment Technician (AS); Jet/Turbo Prop Engine Technician (AD 6409 thru 6421); Jet Test Cell Operator (AD 6422)

Air Force: Aircraft Propeller Repairman (42151); Aircraft Fuel Systems Mechanic (42450); Jet Engine Mechanic (43250); Reciprocating Engine Mechanic (43251); Helicopter Mechanic (43150); Aircraft Maintenance Specialist (43151); Airframe Repair Specialist (53450)

Marine Corps: Aircraft Mechanics (6012 thru 6018), (6020 thru 6029), (6112 thru 6114), (6122 thru 6125); Aircraft Power Plants Test Cell Operator (6032); Aircraft Propeller Mechanic (6036); Aircraft Structures Mechanic (6042); Helicopter Mechanic Trainee (6111); Helicopter Dynamic Components Mechanic (6132)

Coast Guard: Aviation Machinist Mate (AD); Aviation Structural Mechanic (AM); Aviation Electrician (03)

4. Composite Service Job Statement: Performs any one or a combination of the following: Services, repairs and overhauls aircraft and aircraft engines to insure airworthiness. Repairs, replaces and assembles parts such as wings, fuselage, tail assembly, landing gear, control cables, propeller assembly and fuel and oil tanks, using tools such as power shears, sheet metal breaker, arc and acetylene welding equipment, rivet gun and air or electric drills to rebuild or replace airframe or its components.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry, machine shop and aircraft engine machine shop.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in automotive electrical, body and engine work. High degree of mechanical aptitude.

6. Related Service Jobs: None.

AIRCRAFT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Airplane Inspector (621.281)
3. Military Titles: (Aircraft Inspector)

Army: Airplane Technical Inspector (67F); Helicopter Technical Inspector (67W)

Navy: Master Chief Aircraft Maintenanceman (AFCM)

Air Force: Helicopter Technician (43170); Aircraft Maintenance Technician (43171)

Marine Corps: Aircraft Maintenance Chief (6019); Helicopter Maintenance Chief (6119)

Coast Guard: Aviation Electrician's Mate (AE); Aviation Machinist's Mate (AD); Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Examines airframe, engines, and operating equipment to insure that repairs are made according to specifications, and certifies airworthiness of aircraft: Tests tightness of airframe connections with handtools and employs flashlight and mirror to inspect fit of parts. Collects data, such as

engine revolutions per minute and fuel and oil pressures, to evaluate engine performance, using tachometer and pressure gages. Examines assembly, installation, and adjustment of ailerons and rudders to insure that workmanship and materials conform with Civil Air Regulations, company specifications, and manual procedures. Determines accuracy of installation of components in power plant and hydraulic system with protractor, micrometer, calipers, and gage to insure that specified tolerances are met. Signs inspection tag to approve unit, or records reasons for rejecting unit. Logs inspections performed on aircraft. May prepare dismantling schedules for airplanes to be overhauled May service, repair, and replace airframe components, engines, and operating equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, physics, algebra and plane geometry.
   b. Physical: Color discrimination.
   c. Specific: High degree of mechanical aptitude. Experience in aircraft and general mechanical work.

6. Related Service Jobs:
   Army: Aircraft Maintenance Senior Sergeant (67Z)
   Navy: Air Crewman (8241-8298)

AIRCRAFT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation
2. Civilian Title: Flight Engineer (621.281)
3. Military Titles: (Flight Engineer)
   Navy: Aircrew Man (8241, 8251-8259), 8261 & 8262, 8264-8266, 8276 & 8277, 8281, 8283-8288, 8291, 8292-8294, 8295, 8296, 8298)
   Air Force: Flight Engineer Specialist (43550)
   Marine Corps: Aircraft Flight Engineer, KC-130 (6038)
   Coast Guard: Flight Engineer (QC: S-1)

4. Composite Service Job Statement: Makes preflight, inflight and postflight inspections, adjustments and minor repairs to insure safe and efficient operation of aircraft. Inspects aircraft prior to takeoff for defects such as, fuel or oil leaks and malfunctions in electrical, hydraulic or pressurization systems according to preflight checklist. Monitors control panel to verify aircraft performance, and regulates engine speed according to instructions. Makes inflight repairs such as, replacing fuses, adjusting instruments and freeing jammed flight control cables, using hand tools; or takes emergency measures to compensate for failure of equipment such as, autopilot, wing heaters and electrical and hydraulic systems. Monitors fuel gauges and computes rate of fuel consumption. Keeps log of fuel consumption and engine performance. May perform repairs upon completion of flight. May compute and apply aircraft weight, balance and performance data.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mechanical shop and shop mathematics.
   b. Physical: Physical qualification for Aircrew duty is mandatory.
   c. Specific: Mechanical and spatial aptitude.

6. Related Service Jobs:
   Air Force: Aircraft Maintenance Specialist (43151)

AIRCRAFT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Hydraulic Tester (621.281)

3. Military Titles: (Aircraft Mechanic)

Army: Aircraft Hydraulics Repairman (68H)

Navy: Aviation Structural Mechanic (Hydraulic) (AMH); Stationary Hydraulics Test Stand Operation/Maintenanceman (AM-7212); Organizational Structural/Hydraulic Repairman (AM-7214)

Air Force: Aircraft Pneudraulic Repairman (42152)

Marine Corps: Aircraft Hydraulics/Pneumatic Mechanic (6052, 6053, 6054, 6055, 6056)

Coast Guard: Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Services, tests, and performs organizational and intermediate level maintenance and repair of aircraft hydraulic systems. Maintains hydraulic test and service equipment, air compressors, jacks, work stands, and associated equipment.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in shop, mathematics, physics, algebra, and geometry.

b. Physical: Normal color discrimination.

c. Specific: Experience in automobile and aircraft mechanical work.

6. Related Service Jobs:

Army: Aircraft Maintenance Senior Sergeant (67Z)

AIRCRAFT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Pneumatic Tester and Mechanic (621.381)

3. Military Titles: (Pneumatic Unit Mechanic)

Army: Aircraft Hydraulics Repairman (68H)

Navy: Aviation Structural Mechanic (AM)

Air Force: Aircrew Egress Systems Repairman (42252); Aircraft Pneudraulic Repairman (42152)

Marine Corps: Aircraft Hydraulic/Pneumatic Mechanic (6052 thru 6054, 6056); Helicopter Hydraulic/Pneumatic Mechanic (6055)

Coast Guard: Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Tests, adjusts, and repairs aircraft pneumatic units, such as valves, pumps, and regulators, according to specifications, using handtools, power tools, and test equipment: Disassembles unit, using handtools, and examines parts for defects. Replaces defective parts and reassembles unit. Mounts unit on test stand and connects air lines to unit. Observes gauges and monometers, records air pressure input on data sheets, and turns setscrews on unit to make adjustments as specified.

5. Desirable Qualifications Summary:

a. Academic Background: Shopwork courses in metal and wood working.

b. Physical: Normal color discrimination.

c. Specific: Experience in automotive body work, aircraft manufacturing and general mechanical work.

6. Related Service Jobs:
Army: Aircraft Maintenance Senior Sergeant (67Z)
Air Force: Aircraft Environmental Systems Repairman (42251)

RAIL EQUIPMENT MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Car Repairer (622.381)

3. Military Titles: (Railway Car Repairer)
Army: Railway Car Repairman (65D); Airbrake Repairman (65E)

4. Composite Service Job Statement: Performs maintenance on railway, passenger, freight and hospital cars, using handtools, power tools and measuring instruments. Inspects, services and repairs airbrake systems of locomotives and cars. Examines car wheels, axles and bearings for structural and safety defects. Removes broken, rotted or warped boards from floors, roofs and sides of cars and selects, measures and cuts lumber for replacement.

5. Desirable Qualifications Summary:
a. Academic Background: None.
b. Physical: Eye-Hand coordination.
c. Specific: None.

6. Related Service Jobs: None.

MARINE MECHANICS AND REPAIRERS

1. USOE Cluster: Transportation

2. Civilian Title: Machinist, Marine Engine (623.281)

3. Military Titles: (Marine Machinist)
Army: Marine Engineer (61C)
Navy: Engineman (EN)
Air Force: Marine Engineman (59151)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Operates, maintains and repairs marine propulsion engines and auxiliary equipment of floating craft. Diagnoses and troubleshoots malfunction. Operates and performs minor adjustments to items such as generators, motors and vessel electrical systems, ramp mechanisms, winches, pumps and vessel piping systems.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in machine shop, electricity, and practical mathematics.
b. Physical: Normal color discrimination.
c. Specific: Mechanical aptitude and interest. Requires a U. S. Coast Guard License or equivalent certification (Army).

6. Related Service Jobs:
Navy: Machinist's Mate (MM)
Air Force: Special Vehicle Repairman (47251); Seaman (59150)

ENGINE, POWER TRANSMISSION AND RELATED MECHANICS

1. USOE Cluster: Transportation
2. Civilian Title: Diesel Mechanic (625.281)
3. Military Titles: (Diesel Mechanic)

Army: Diesel Electric Locomotive Repairman (65C); Wheel Vehicle Mechanic (63B); Track Vehicle Mechanic (63C); Engineer Equipment Repairman (62B)

Navy: Engineman (EN); Construction Mechanic (CM); Diesel Engine Inspector (EN-4314); SSN/SSBN Diesel Engine Maintenance Technician (MM-4246); Diesel Engine Technician (EN 4315-4318); LST-1182 Class Propulsion System Technician (EN-4362); Larc-V Mechanic (EN-4321); Patrol Gun Boat/PG Engineer (EN-4322); Stationary Diesel Engine Mechanic (CM-5804)

Air Force: Base Maintenance Equipment Repairman (47250); Special Vehicle Repairman (47251); Electrical Power Production Specialist (54350)

Marine Corps: Engineer Equipment Mechanic (1341); Tracked Vehicle Repairman (2141, 2142, 2144); Tracked Vehicle Technician (2149)

Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Repairs and maintains diesel engines used to power machines such as buses, ships, trucks, railroad trains, electric generators, and construction machinery, using handtools, precision measuring instruments and metalworking tools. Diagnoses trouble, disassembles engines and examines parts for defects and excessive wear.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mechanics, machine shop, electricity and practical mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Mechanical aptitude and interest. Experience in automotive repair.

6. Related Service Jobs:

Army: Mechanical Maintenance Supervisor (63Z)

Navy: Aviation Support Equipment Technician (AS);

Air Force: Marine Engineman (59151)

Marine Corps: Automotive Mechanic (3521-3522); A/C Mechanic, Reciprocating (6028); Aircraft Maintenance Ground Support Equipment Mechanic (6072)

ENGINE, POWER TRANSMISSION AND RELATED MECHANICS

1. USOE Cluster: Public Service
2. Civilian Title: Engine Repairer, Service (625.281)
3. Military Titles: (Gas Turbine Engine Technician)

Army: Aircraft Turbine Engine Repairman (68B)

Navy: Gas Turbine Engine Technician (EN-4354); Gas Turbine System Technician (GS)

Air Force: Aerospace Ground Equipment Repairman (42153)

4. Composite Service Job Statement: Adjusts, repairs and tests gas turbine engines according to specifications and charts, using machine tools, handtools, and measuring instruments: Tests engine to determine malfunctions using instruments such as vacuum gage, compression gage, and exhaust analyzer. Disassembles engine and cleans parts such as jets, bearings, and blades, using cleaning solvent, grinders and wire brushes. Repairs or replaces accessories such as pressure gages and dual control valves. Assembles and starts engine to verify correction of malfunction. Instructs personnel in proper operating procedures.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop mathematics and algebra.
   b. Physical: Normal color discrimination.
   c. Specific: May require appropriate security clearance.

6. Related Service Jobs:
   Navy: Engineman (EN); Machinist's Mate (MM)

PRINTING AND PUBLISHING MECHANICS AND REPAIRERS

1. USOE Cluster: Communication and Media

2. Civilian Title: Composing-Room Machinist (627.281)

3. Military Titles: (Printing Equipment Mechanic)
   Army: Reproduction Equipment Repairman (41K)
   Navy: Lithographer (LI)
   Marine Corps: Reproduction Equipment Repairman (1542)

4. Composite Service Job Statement: Maintains and repairs reproduction machines such as lithographic offset presses and related machinery and equipment. Visually inspects or uses precision instruments to determine malfunctions; uses standard or special repair tools to disassemble, repair assemblies or parts. Installs new or rebuilt components.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in basic mathematics, machine shop, and print shop.
   b. Physical: Normal color discrimination. Eye-hand coordination.
   c. Specific: Experience in lithography, printing and offset press operation.

6. Related Service Jobs: None.

SPECIAL INDUSTRY MACHINERY MECHANICS

1. USOE Cluster: Manufacturing

2. Civilian Title: Laundry-Machine Mechanic (629.281)

3. Military Titles: (Mechanic)
   Army: Quartermaster/Heavy Equipment Repairman (63K)
   Marine Corps: Hygiene Equipment Repairman (1173)

4. Composite Service Job Statement: Inspects, services, maintains and repairs laundry equipment. Disassembles, installs components, and reassembles laundry equipment. Adjusts, cleans, and aligns machine components, such as pulleys, motors and pumps.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Navy: Machinist's Mate (MM)

GENERAL INDUSTRY MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Treatment-Plant Mechanic (630.281)
3. Military Titles: (Water Supply Man)
   Army: Water Supply Specialist (51N)
   Navy: Utilitiesman (UT)
   Air Force: Environmental Support Specialist (56350)
   Marine Corps: Plumbing and Water Supply Man (1121)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Maintains and repairs machines and equipment used to process and distribute water for human consumption and industrial use: Dismantles or partially dismantles electric motors, turbines, pumps, hydraulic valves, chlorinators, limers, meters, gauges, and other equipment to gain access to or remove faulty parts, using hand or power tools, such as wrenches, screwdrivers, and hoist. Repairs or replaces defective parts. Inspects machines and equipment periodically, lubricating moving parts or replacing worn parts to prevent breakdown or malfunction. May operate plant equipment to process and distribute water.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics and metal shop.
   b. Physical: Normal color discrimination.
   c. Specific: School or apprentice training in plumbing and related fields.
6. Related Service Jobs:
   Navy: Machinist's Mate (MM); Boiler Technician (BT)

GENERAL INDUSTRY MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Fuel-System-Maintenance Worker (630.781)
3. Military Titles: (Fuel System Mechanic)
   Army: Pipeline Specialist (51F); Petroleum Supply Specialist (76W)
   Navy: Aviation Boatswain's Mate (Fuels) (ABF); Aviation Gasoline Handler (AB-7022)
   Air Force: Liquid Fuel Systems Maintenance Specialist (54650)
   Marine Corps: Bulk Fuel Man (1391)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Installs, maintains, repairs and adjusts pumps, control valves and meters, strainers and filters, water separators and pipelines of liquid fuel systems. Makes periodic inspections of units to detect and correct leakage, corrosion, faulty fittings and malfunction of mechanical units, meters and gauges, such as fuel hydrants, tank pits, distribution lines, storage tanks, pumps and control rooms. Repairs, replaces and adjusts malfunctioning equipment to restore operating condition specified in regulations and repair manuals.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop work, physics, and chemistry.
   b. Physical: Normal hearing and 20/30 vision in each eye uncorrected (Navy).
   c. Specific: None.

6. Related Service Jobs:
   Air Force: Plumber (55255)

POWERPLANT MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Powerhouse Repairer (631.281)
3. Military Titles: (Powerhouse Repairman)
   Army: Power Generation Equipment Operator Mechanic (52B); Power Pack Specialist (52C); Power Generation Equipment Repairman (52D)
   Navy: Shore Based Powerplant Technician (CE-5632)
   Air Force: Electrical Power Production Specialist (54350)
   Coast Guard: Electrician's Mate (EM)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Installs, adjusts, and repairs mechanical equipment and mechanical parts of electrical machinery in electric-generating station. Dismantles and overhauls equipment. Dismantles and repairs auxiliary equipment such as pumps, compressors, and pipe systems.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, shop mathematics and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Experience with electrical construction tools and materials.

6. Related Service Jobs:
   Navy: Construction Electrician (CE); Electrician's Mate (EM)
   Air Force: Aerospace Ground Equipment Repairman (42153)

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Artillery-Maintenance Supervisor (632.131)
3. Military Titles: (Artillery Maintenance Supervisor)
   Army: Armament Maintenance Foreman Inspector (45Z)
   Navy: Naval Guns Maintenancemen (GM-0871-0877); Conventional Ordnance Supervisor (GM-0881)

Marine Corps: Weapon Technician (2181); Armament Chief (2191); Weapons Chief (2192)
Coast Guard: Gunner's Mate (GM)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in inspecting, servicing, and repairing artillery weapons. Analyzes and resolves work problems, or assists workers in solving work problems. Plans and organizes training programs to provide for systematic growth of skills of individuals or units in the armament field. May supervise administrative matters connected with the operation of armament repair facilities. May inspect and repair tank turrets, combat track vehicles, air defense artillery, aircraft armament and other similar material.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop mathematics, electricity, physics and shop work.
   b. Physical: None.
   c. Specific: Mechanical aptitude..

6. Related Service Jobs:
   Army: Tank Turret Repairman (45K); Artillery Repairman (45L); Aircraft Armament Repairman (45J); Sheridan Turret Mechanic (45P)
   Navy: Gunner's Mate (GM)
   Air Force: Weapon's Mechanic (46250)
   Marine Corps: Artillery Weapons/Turret Repairman (2131); Track Vehicles Repairman (2141, 2142, 2144): Tank Turret Repairman (2151)

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Aircraft-Armament Mechanic (632.281)
3. Military Titles: (Aircraft Armament Mechanic)
   Army: Aircraft Armament Repairman (45J); Aircraft Armament Subsystem Mechanic (45M)
   Navy: Aviation Ordnanceman (AO)
   Air Force: Weapons Mechanic (46250); Weapons Control Systems Mechanic (32251); Defensive Fire Control Systems Mechanic (32350)
   Marine Corps: Aircraft Ordnance Technician (6531); Aviation Ordnance/Missile Technician (6541)
   Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Inspects, maintains and/or repairs aircraft armament equipment such as, machine guns, automatic guns, grenade launchers, bombs, rockets, missiles and pyrotechnics. Tests and inspects material for functioning serviceability, using prescribed gauges and test equipment. Services armament equipment used on military aircraft.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, electricity, physics and shop work.
   b. Physical: Normal color discrimination.
   c. Specific: Must be eligible to receive appropriate security clearance (Marine Corps). Experience in electrical and/or mechanical repair work.

6. Related Service Jobs:
Army: Armament Maintenance Foreman-Inspector (45Z)

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Public Service
2. Civilian Title: Bomb Disposal Specialist (632.281)
3. Military Titles: (Explosive Ordnance Disposal Specialist)
Army: Atomic Demolition Munitions Specialist (12E); Explosive Ordnance Disposal Specialist (55D)
Navy: Combat Swimmer, SEAL Team/EOD Diver (5327); Navy Explosive Ordnance Disposal Diver (5332)
Air Force: Munitions Disposal Specialist (46430)
Marine Corps: Explosive Ordnance Disposal Technician (Conventional Weapons) (2335); Explosive Ordnance Disposal Technician (2336)

4. Composite Service Job Statement: Detects, identifies, renders safe, recovers or destroys explosive, incendiary and/or nuclear munitions. Conducts area reconnaissance for identification of unexploded munitions. Performs necessary rendering safe procedures, using special tools, including usage of remote controlled devices and shaped charges. Neutralizes and disposes of chemical and biological munitions. May dive and perform salvage operations required to render safe and recover any explosive, nuclear, chemical or biological material located under water.

5. Desirable Qualifications Summary:
a. Academic Background: Completion of high school is mandatory (USAF). Courses in algebra, physics and electricity.
b. Physical: Normal color discrimination. Top physical condition. No record of emotional instability (USAF). Normal depth perception.
c. Specific: Volunteer for Explosive Ordnance Disposal Duty. Not allergic to explosive compositions (Army). May be required to possess appropriate security clearance. High degree of calmness under stress.

6. Related Service Jobs: None.

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Fire-Control Mechanic (632.281)
3. Military Titles: (Fire Control Mechanic)
Army: Fire Control Computer Repairman (34G); Artillery Calibration Specialist (45D)
Navy: Fire Control Technician (Ballistic Missile) (FTB); Fire Control Technician (Guns) (FTG); Fire Control Technician (Surface Missile) (FTM); Underwater Fire Control Technician (ST-0431-0439); Surface Sonar Fire Control Systems Technician (ST-0474 thru ST-0497); Fire Control Equipment Technician (FT-1105 thru 1198); Missile Fire Control Systems Technician (FTB) (3306-3309)

Marine Corps: Optical Instrument Repairman (2171)
Coast Guard: Fire Control Technician (FT)

4. Composite Service Job Statement: Performs any one or a combination of the following: Services mechanical, electronic, and optical equipment controlling artillery or naval guns. Inspects and cleans optical equipment, installs new eyepieces as necessary. Repairs and replaces parts of motors and remote control equipment, using handtools and standard test equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in radio, electricity, algebra, physics, trigonometry, and shop.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in amateur radio, mechanical or electrical trades.

6. Related Service Jobs:
   Navy: Aviation Fire Control Technician (AQ); Aviation Electronics Technician (AT); Electronics Technician (ET); Communications Technician (Maintenance) (CTM)
   Air Force: Weapons Control Systems Mechanic (32251); Defensive Fire Control Systems Mechanic (32350)

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Gunsmith (632.281)
3. Military Titles: (Gunsmith)
   Army: Small Arms Repairman (45B)
   Navy: Gunner's Mate (Guns) (GMG); Aviation Ordnanceman (AO)
   Air Force: Gunsmith Specialist (75331)
   Marine Corps: Infantry Weapon Repairman (2111); Rifle Team Equipment Repairman (2112)
   Coast Guard: Gunner's Mate (GM); Aviation Survivalman (ASM)

4. Composite Service Job Statement: Inspects and repairs firearms. Disassembles guns and examines components for acceptable clearances and tolerances. Analyzes malfunctions and isolates cause by visual inspection, service testing and gauges. Adjusts parts and operating mechanism for proper operation using precision gauges, testing instruments and special tools. Fabricates small parts with precision machinery and tools. Repairs parts by grinding or aligning. Performs test firing and truing modified guns. Rechambers gun barrels. Inserts new parts from stock or fabricates new parts using power machinery or hand tools.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop mathematics, electricity and physics.
   b. Physical: None.
   c. Specific: High aptitude for electrical and mechanical repair work.

6. Related Service Jobs: None.

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Nuclear Weapons Mechanical Specialist (632.281)

3. Military Titles: (Nuclear Weapons Mechanic)
Army: Nuclear Weapons Maintenance Specialist (55G)
Navy: Gunner's Mate (Technician) (GMT); Nuclear Depth Bomb Technician (TM-0771); Warhead Maintenance Specialist (GM-0926)
Air Force: Nuclear Weapons Specialist (46350)
Marine Corps: Field Artillery Nuclear Projectileman (0812); Atomic Demolition Employment Technician (1372); Marine Wing Weapons Unit Specialist (8061); Ground Nuclear Weapons Technician (8062)

4. Composite Service Job Statement: May perform any one or a combination of: Inspects, assembles, tests, maintains, repairs, and modifies nuclear weapons/warheads, re-entry vehicles, and related components and test equipment. Prepares mechanical, electrical, and electronic components of nuclear weapons/warheads, re-entry vehicles, and associated test equipment for acceptance checks. Tests and calibrates electrical and electronic components and circuits, mechanical components, automotive switches, timing devices, and power supplies, using common and special test equipment. Connects, mounts, and aligns components, using hand tools and test equipment. Performs mating of warheads to re-entry vehicles and mates and de-mates re-entry vehicles to missiles. Stores and monitors nuclear weapons/warheads, re-entry vehicles, and associated components.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in electricity, mechanical drawing, and practical mathematics. Completion of high school is mandatory (Air Force).
b. Physical: Normal color discrimination. Must be in excellent physical condition with no record of emotional instability. Normal depth perception (Air Force).
c. Specific: Must be eligible to receive appropriate security clearance. Experience in automobile repair, small parts assembly or radio and TV repair.

6. Related Service Jobs:
Army: Nuclear Weapons Electronic Specialist (35F)
Navy: Gunner's Mate (GM); Missile Technician (MT); Torpedoman's Mate (TM); Aviation Ordnanceman (AO)
Air Force: Weapon's Mechanic (46250)

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Ordnance Artificer (632.281)

3. Military Titles: (Ordnanceman)
Army: Pershing Electrical-Mechanical Repairman (46N); Improved Hawk Mechanical Systems Repairman (46D); Small Arms Repairman (45B); Artillery Calibration Specialist (45D); Aircraft Armament Repairman (45J); Tank Turret Repairman (45K); Artillery Repairman (45L); Aircraft Armament Subsystem Mechanic (45M); Tank Turret Mechanic (45N); Sheridan Turret Mechanic (45P); Missile Tank Turret Mechanic (45R)

Navy: Torpedoman's Mate (TM); Gunner's Mate (Missiles) (GMM); Gunner's Mate (Guns) (GMG); Mineman (MN); ASROC/SUBROC Missile Assemblyman/Technician (TM-0718) (0721); Naval Guns Maintenanceman (GM-0871 thru 0877); ASROC/Guided Missile Launching Systems Maintenance Technician (GM-0891, GM-0984 thru 0998); Ordnance Systems Technician (GM-0981); Basic Point Defense SMS Maintenanceman (GM-0892); Air Launch Weapons Intermediate Guided Missile Technician (AO-6801); Strike and ASW Intermediate Armament Maintenanceman (AO-6802 and 6803); Torpedo Maintenance Technician (TM-0715); Advanced Undersea Weaponsman (TM-0737 thru 0749); Launcher and Ordnance Systems/SUB Systems Technician (SSBN, TM) (3341)

Air Force: Munitions Maintenance Specialist (46150)

Marine Corps: Artillery Weapons/Turret Repairman (2131); Tracked Vehicle Technician (2149); Tank Turret Repairman (2151); Ammunition Technician (2311); Improved Hawk Mechanical System Repairman (5929); Aviation Ordnance Munitions Man (6521); Aviation Ordnance/Missile Technician (6541); Hawk Missile System Operator (7222)

Coast Guard: Gunner's Mate (GM); Aviation Survivalman (ASM)

4. Composite Service Job Statement: Inspects, tests, maintains, stores and prepares for use ordnance material such as guns, primer fuses, shells, mines, bombs, rockets and guided missiles, tanks, chemical, biological, and radiological munitions for weapons. Disassembles, repairs, and reassembles ordnance of all types using hand tools, power tools, and material-handling equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, electricity, physics and shop work.
   b. Physical: Normal color discrimination.
   c. Specific: May be required to possess appropriate security clearance. High aptitude for mechanical/electrical work.

6. Related Service Jobs:

Army: Armament Maintenance Foreman-Inspector (45Z); Explosive Ordnance Disposal Specialist (55D)

Navy: Explosive Ordnance Disposal Diver (5332)

Air Force: Weapons Mechanic (46250); Munitions Disposal Specialist (46450); Nuclear Weapons Specialist (46350)

Marine Corps: Explosive Ordnance Disposal Technician (Conventional Weapons) (2335)

ORDNANCE AND ACCESSORIES MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Guided Missile Technician (632.381)
3. Military Titles: (Missile Mechanic)

Army: Pershing Electronics Material Specialist (21G); Hawk Missile Launcher Mechanic (24D); Improved Hawk Firing Section Mechanic (24C); Sergeant Missile Crewman (15B); Lance Missile Crewman (15D); Pershing Missile

Crewman (15E); Honest John Rocket Crewman (15F); Field Artillery Missile/Rocket Senior Sergeant (15Z); Air Defense Artillery Senior Sergeant (16Z); Hercules Missile Crewman (16B); Hercules Fire Control Crewman (16C); Hawk Missile Crewman (16D); Chapparal Crewman (16P)

Navy: Missile Technician (MT); Senior SSBM Polaris/Poseidon Weapons Department Technician (FTB, MT) (3302); Missile and Missile Check Out Technician (MT-3313-3319); Polaris Instrumentation Technician (MT-1317); Poseidon Instrumentation Technician (MT-1318); ASROC Missile Assemblyman (TM-0718); SUBROC Missile Assemblyman (TM-0721); Gunner's Mate (Missile-GMM)

Air Force: Missile Pneudraulic Repairman (44250); Missile Mechanic (44350); Missile Engine Mechanic (44351); Missile Systems Analyst Specialist (31650); Missile Systems Maintenance Specialist (31651); Missile Electronic Equipment Specialist (31652); Instrumentation Mechanic (31750)

Marine Corps: Improved Hawk Firing Section Repairman (5923); Hawk Missile System Operator (7222)

4. Composite Service Job Statement: Performs any one of a combination of the following: Disassembles missile after removal from packing can. Performs electrical, mechanical and electronic maintenance on systems within missiles. Reassembles and assures that assembly is in working order. Puts special propellants or fuels in missiles. Attaches warheads and joins missile with booster and armed booster. Pressurizes missile and checks for leaks. Repairs support handling equipment. Handles and stows missile and missile components. Maintains logs and reports.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, algebra, physics and electronics.
   b. Physical: Normal color discrimination.
   c. Specific: Must be eligible for appropriate security clearance. Background or courses in electrical, hydraulic and mechanical work.

6. Related Service Jobs:
   Navy: Fire Control Technician (FT); Aviation Fire Control Technician (AQ)

BUSINESS AND COMMERCIAL MACHINE REPAIRERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Office-Machine Servicer (633.281)

3. Military Titles: (Office Machine Repairer)
   Army: Office Machine Repairman (41J)
   Navy: Instrumentman (IM)
   Air Force: Office Machine Repairman (40150)
   Marine Corps: Office Machine Repairman (3241); Office Machine Repair Chief (3242)

4. Composite Service Job Statement: Repairs and services office machines such as adding, accounting, calculating and typewriters, using hand tools, power tools, micrometers and welding equipment. Operates machine to test moving parts.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in blueprint reading.
   b. Physical: Normal color discrimination (Army, Navy, Air Force). Finger dexterity.
   c. Specific: Experience in watchmaking, repair of typewriters or other office machines.

6. Related Service Jobs:
   Air Force: Tabulating Equipment Repairman (40131)

BUSINESS AND COMMERCIAL MACHINE REPAIRERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Statistical-Machine Servicer (633.281)

3. Military Titles: (Statistical-Machines Repairer)
   Army: Tabulating Equipment Repairman (34B)
   Navy: Tabulating Machine Serviceman (DP-2763, 2764)
   Air Force: Tabulating Equipment Repairman

4. Composite Service Job Statement: Installs and services calculators, sorters, tabulators and other statistical machines in accordance with graphs and charts, using hand tools and precision measuring instruments. Locates electrical and mechanical defects. Examines wiring, cards and printed tape for defects. Dismantles machines and repairs or replaces parts, using hand tools.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in business machine operation and/or repair.
   b. Physical: Normal color discrimination.
   c. Specific: Clerical and mechanical aptitude.

6. Related Service Jobs:
   Navy: Data Systems Technician (DS); Data Processing Technician (DP)
   Air Force: Office Machine Repairman (40150)
   Marine Corps: Office Machine Repairman (3241)

UTILITIES SERVICE MECHANICS AND REPAIRERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Refrigeration Mechanic (637.281)

3. Military Titles: (Refrigeration Mechanic)
   Army: Heating and Cooling Specialist (51L)
   Navy: Refrigeration and Air-Conditioning Mechanic (MM-4294); Shore Base Refrigeration and Air-Conditioning Technician (UT-6104)
   Air Force: Refrigeration and Air-Conditioning Specialist (54530)
   Marine Corps: Refrigeration Mechanic (1161); Aircraft Maintenance Ground Support Equipment Refrigeration Mechanic (6078)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Installs, modifies and repairs refrigeration, air-conditioning and ventilation equipment and systems. Installs mechanical, pneumatic, electronic and sensing/switching devices designed to control flow and temperature of air, refrigerants or working fluids. Connects wiring harnesses to electrical equipment. Shapes, sizes and connects tubing to components such as meters, valves, gages, traps and filtering assemblies using special bending, flaring and coupling tools and oxacetylene torches for soldering and brazing. Conducts tests of installed equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mechanics, machine shop, electricity and practical mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Mechanical aptitude. Experience in garage, power plant or machine shop.

6. Related Service Jobs:
   Army: Engineer Missile Equipment Specialist (62C)
   Navy: Machinist's Mate (MM); Utilitiesman (UT); Engineman (EN)
   Air Force: Heating Systems Specialist (54750); Missile Facilities Technician (54150)

MECHANICS AND MACHINERY REPAIRER

1. USOE Cluster: Manufacturing

2. Civilian Title: Sewing Machine Repairer (639.281)

3. Military Titles: (Sewing Machine Repairer)
   Army: Quartermaster Light Equipment Repairman (63J)
   Air Force: Fabric and Rubber Products Specialist (58250)
   Marine Corps: Fabric Repairman (3211); Fabric Repair Chief (3212)
   Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Installs, repairs, tests, adjusts and operates sewing machines. Dismantles machines, replaces or repairs broken or worn parts using hand tools.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Aircrew Survival Equipment Man (PR)

PRINTING PRESS

1. USOE Cluster: Communications and Media

2. Civilian Title: Supervisor, Press Room (651.130)

3. Military Titles: (Pressroom Supervisor)
   Army: Photolithography Chief (83Z)
   Navy: Lithographer (LI)
   Air Force: Printing Superintendent (71391)
   Marine Corps: Reproduction Chief (1541)

4. Composite Service Job Statement: Supervises personnel operating duplicating and offset press equipment; plate making, layout operations to support the reproduction of printed matter. Plans and organizes work procedures. Requisitions equipment and materials to be used for the printing processes. Inspects work completed to determine accuracy and completeness.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in typing, printing, chemistry, English and shop mathematics.
   - b. Physical: None.
   - c. Specific: Experience in lithography, printing and photography.

6. Related Service Jobs:
   Army: Offset Press Man (83F)
   Air Force: Duplicating Technician (71170); Printing Technician (71371)

PRINTING PRESS

1. USOE Cluster: Communication and Media

2. Civilian Title: Offset Press Operator (651.782)

3. Military Titles: (Press Operator)
   Army: Offset Press Man (83F)
   Navy: Lithographer (LI)
   Air Force: Printing-Binding Specialist (71350); Duplicating Specialist (71150)
   Marine Corps: Duplicating Man (1521); Offset Pressman (1522)

4. Composite Service Job Statement: Operates lithographic offset presses for reproduction of printed materials; operates hand and automatic bindery equipment, and performs operator maintenance on offset press and bindery equipment. Sets counter, starts press, engages feed controls and monitors press run. Cleans press upon completion of shift operation. Lubricates press and bindery equipment; inspects for worn or malfunctioning parts, loose screws and bolts, and dirty or rough bearings and cylinders. Replaces minor worn or broken parts. Prepares lithographic press for press run.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in chemistry, shop mechanics, English and shop mathematics.
   - b. Physical: Normal color discrimination.
   - c. Specific: Experience in lithography, printing or photography.

6. Related Service Jobs:
   Army: Photolithography Chief (83Z)
   Air Force: Photolithography Specialist (71351)

PATTERNMAKERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Patternmaker, Wood (661.281)

3. Military Titles: (Patternmaker)
   Navy: Patternmaker (PM)

4. Composite Service Job Statement: Plans, lays out and constructs wooden, plaster and metal patterns, core boxes and flasks used by molders. Makes master patterns and full-scale layouts. Performs organizational and intermediate maintenance on assigned equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in wood and metal shop.
   b. Physical: None.
   c. Specific: Ability to do exacting, precise work. Experience in carpentry or model assembly.

6. Related Service Jobs:
   Army: Construction Foreman (51H)
   Navy: Builder (BU)

SAWING

1. USOE Cluster: Construction
2. Civilian Title: Sawmill Worker (667.782)
3. Military Titles: (Sawyer)
   Army: Sawyer (57D)

4. Composite Service Job Statement: Participates in and supervises logging and sawmill operations in falling timber, transporting logs to sawmill, processing logs into lumber and installing and maintaining sawmill equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Builder (BU)

WOOD MACHINING

1. USOE Cluster: Construction
2. Civilian Title: Machinist, Wood (669.380)
3. Military Titles: (Millworker)
   Navy: Millworker (BU-5904)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Operates woodworking machines and handtools to fabricate cabinets and millwork products from rough lumber. Uses jigs, gauges and templates for assembly type production. May supervise and train carpenter shop crews.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in carpentry, machining and practical mathematics.
   b. Physical: Eye-hand coordination.
   c. Specific: Experience with hand and power tools. Building trade experience.

6. Related Service Jobs:
   Army: Construction Foreman (51H)
   Navy: Builder (BU); Patternmaker (PM)
   Air Force: Carpentry Specialist (55250)

PLANING AND SHAPING

1. USOE Cluster: Manufacturing
2. Civilian Title: Precision-Lens Grinder (675.380)
3. Military Titles: (Lens Grinder)
   Navy: Opticalman (OM); Optical (Submarine Periscopes) Repairman (OM-1903)

4. Composite Service Job Statement: Sets up and operates grinding and polishing machines to make lenses. Repairs and maintains small navigational instruments, binoculars, gunsights, range-finders, submarine and turret periscopes, and night vision sights. Refinishes, surfaces, cleans, reassembles, collimates, and adjusts optical elements; dries, gasses, and seals optical assemblies; cements lenses using centering machine.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, shop mathematics, and machine shop.
   b. Physical: None.
   c. Specific: Aptitude for close, exact, painstaking work.
6. Related Service Jobs:
   Navy: Instrumentman (IM)

FABRICATION OF ORDNANCE, AMMUNITION AND RELATED

1. USOE Cluster: Manufacturing
2. Civilian Title: Renovation-Plant Supervisor (694.132)
3. Military Titles: (Ammunition Supervisor)
   Army: Ammunition Maintenance Specialist (55C)
   Air Force: Munitions Maintenance Supervisor (46170)

4. Composite Service Job Statement: Supervises and coordinates activities of personnel engaged in inspections and testing items such as conventional and special ammunition, ammunition components, and related packable materials to determine serviceability. Determines rate and degree of deterioration and related safety hazards as affected by conditions of storage, handling, and maintenance. Supervises and assists in reconditioning of ammunition for recycle into the supply system.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: Not allergic to explosive compositions.
6. Related Service Jobs:
   Army: Ammunition Foreman (55Z); Ammunition Inspector (55X)
   Navy: Gunner's Mate Guns (GMG)

TAB 7

BENCH WORK OCCUPATIONS

This category includes occupations concerned with the use of body members, handtools, and bench machines to fit, grind, carve, mold, paint, sew, assemble, inspect, repair, and similarly work relatively small objects and materials, such as jewelry, phonographs, light bulbs, musical instruments, tires, footwear, pottery, and garments. The work is usually performed at a set position in a mill, plant, or shop, at a bench, worktable, or conveyor. At the more complex levels, workers frequently read blueprints, follow patterns, use a variety of handtools, and assume responsibility for meeting standards. Workers at the less complex levels are required to follow standardized procedures.

MISCELLANEOUS OCCUPATIONS IN FABRICATION, ASSEMBLY AND REPAIR OF METAL PRODUCTS

1. USOE Cluster: Manufacturing
2. Civilian Title: Locksmith (709.281)
3. Military Titles: (Locksmith)
   Navy: Locksmith (9583)
   Coast Guard: Gunner's Mate (GM)

4. Composite Service Job Statement: Repairs locks, changes lock combinations, opens door and safe locks, and makes new or duplicate keys. Disassembles padlocks, door and safe locks, and other types of locks, using various hand tools, including screwdrivers, cold chisels, and hammers. Repairs or replaces tumblers, springs, and other parts. Opens door locks for which there are no keys. Opens safe locks by manipulating dial and listening to sound of tumblers or by drilling.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in Locksmithing.
   b. Physical: None.
   c. Specific: Aptitude for close, exact, painstaking work.
6. Related Service Jobs: None.

FABRICATION AND REPAIR OF INSTRUMENTS FOR MEASURING, CONTROLLING, AND INDICATING PHYSICAL CHARACTERISTICS

1. USOE Cluster: Manufacturing
2. Civilian Title: Electromechanical Technician (710.281)
3. Military Titles: (Electromechanical Technician)
   Army: Calibration Specialist (35H)
   Navy: Mine Test Set Maintenance Man (MN-1201); Electronics Standards Specialist (ET-1598)
   Coast Guard: Electronics Technician (ET); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Performs organizational and/or intermediate level maintenance on precision measuring equipment. Calibrates electronic and electrical test equipment used in the development, production, and maintenance of naval weapons and data processing systems. Certifies adequate operability of special-purpose test sets and accomplishes repair of defective components.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, electronics, welding, mechanical drawing and shop mathematics.
   b. Physical: None.
   c. Specific: Experience in electricity, machine tools and welding.
6. Related Service Jobs:
   Army: Electronic Instrument Repairman (35B) Artillery Calibration Specialist (45D)
   Navy: Mineman (MN) Electronics Technician (ET)

FABRICATION AND REPAIR OF INSTRUMENTS FOR MEASURING, CONTROLLING, AND INDICATING PHYSICAL CHARACTERISTICS

1. USOE Cluster: Manufacturing

2. Civilian Title: Instrument Mechanic I (710.281)

3. Military Titles: (Instrument Mechanic)
   - Army: Topographic Instrument Repairman (41B); Electronic Instrument Repairman (35B); Fire Control Instrument Repairman (41C)
   - Navy: Instrumentman (IM); Precision Physical Measuring Specialist (IM-1821)
   - Air Force: Avionics Aerospace Ground Equipment Specialist (32650)
   - Marine Corps: Electronic Instrument Repairman (2871); Electronic Calibration Technician (2872); Mechanical Calibration Technician (2873); Metrology Technician (2874); Radiac Instrument Technician (2877); Calibration Chief (2894); Aviation Precision Measurement Equipment Calibration Technician (6682); Aviation Precision Measurement Equipment Repair Technician (6683); Aviation Precision Measurement Equipment Chief (6689)
   - Coast Guard: Aviation Electrician's Mate (AE)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Installs, repairs, maintains, and adjusts indicating, recording, telemetering, and controlling instruments. Disassembles malfunctioning instruments, and examines and tests mechanism and circuitry for defects. Fabricates parts from metals, using watchmaker's lathes, tests watches and clocks to ascertain accuracy. Removes and replaces assemblies and subassemblies of avionics Aerospace Ground Equipment to repair and perform routine alignment and to verify proper operation of equipment Removes and replaces components of assemblies such as resistors, capacitors, transformers, transistors, diodes, and integrated circuit components, using small hand tools and soldering devices. May perform maintenance calibration and support maintenance on radiac, topographic, cartographic instruments to include polygraph and electrical/electronic measuring and test equipment.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electricity and electronics, mathematics, algebra, trigonometry and blueprint reading.
   - b. Physical: Normal color discrimination and finger dexterity.
   - c. Specific: Experience in repairing typewriters and other office machines.

6. Related Service Jobs:
   - Army: Avionic Communication Equipment Repairman (35L)
   - Navy: Opticalman (OM)
   - Air Force: Avionics Instrument Systems Specialist (32551)
   - Coast Guard: Electrician's Mate (EM); Electronics Technician (ET); Aviation Electronics Technician (AT)

FABRICATION AND REPAIR OF INSTRUMENTS FOR MEASURING, CONTROLLING, AND INDICATING PHYSICAL CHARACTERISTICS

1. USOE Cluster: Manufacturing

2. Civilian Title: Repairer, Gyroscope (710.381)

3. Military Titles: (Gyroscope Repairer)
   Navy: Gyrocompass Technician (IC-4722, 4724)
   Coast Guard: Electrician's Mate (EM)

4. Composite Service Job Statement: Tests, and performs organizational and/or intermediate level maintenance on gyrocompasses and associated equipment. Disconnects necessary wires to disassemble gimbal (stabilizer). Removes ball bearings from pivots of gimbal. Sprays bearings with cleaning solvent and dries them with jet of warm air from hose. Replaces bearings in pivots and inserts shims between bearings and retainer plate to fill space and reduce play of bearing pivot, using gauge to measure amount of free play and to see that it is within allowable limits.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in electrical repairing, and practical mathematics.
   b. Physical: None.
   c. Specific: Aptitude for electrical work.

6. Related Service Jobs:
   Army: Avionic Navigation Equipment Repairman (35M)
   Navy: Interior Communications Electrician (IC)

FABRICATION AND REPAIR OF OPTICAL INSTRUMENTS AND LENSES

1. USOE Cluster: Manufacturing

2. Civilian Title: Supervisor, Optical Instruments (711.138)

3. Military Titles: (Supervisor, Optical Instruments)
   Army: Fire Control Instrument Repairman (41C)
   Navy: Master Chief Precision Instrumentman (PI)
   Marine Corps: Optical Instrument Repairman (2171)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in assembling, repairing, and inspecting optical instruments such as field glasses, telescopes, gunsights, compasses, and military sighting equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop mathematics, physics, blueprint reading and machine shop.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in repairing of typewriters, optical of camera equipment.

6. Related Service Jobs:
   Army: Optical Laboratory Specialist (42E)
   Navy: Opticalman (OM); Instrumentman (IM)

FABRICATION AND REPAIR OF OPTICAL INSTRUMENTS AND LENSES

1. USOE Cluster: Manufacturing

2. Civilian Title: Instrument Repairer (711.884)

3. Military Titles: (Instrument Repairer)
   Army: Fire Control Instrument Repairman (41C); Topographic Instrument Repairman (41B)
   Navy: Instrument Man (IM); Optical Man (OM)
   Air Force: Weapons Control System Mechanic (32251); Defensive Fire Control System Mechanic (32350); Bomb-Navigation Systems Mechanic (32150)
   Marine Corps: Optical Instrument Repairman (2171)
   Coast Guard: Fire Control Technician (FT)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks. Inspects fire control instruments such as binoculars, aiming circles, range finders, telescopes, periscopes, sight units, telescope mounts, quadrants, azimuth indicators, ballistic computers, ballistic drives, servomechanisms, amplifiers, synchros and inverters visually or by testing with precision measuring instruments to determine serviceability. Performs preventive maintenance and disassembles, repairs or overhauls, and reassembles fire control instruments. Processes and packs instruments for storage or shipment. Compiles data for reports. Requisitions supplies and equipment. Makes minor repairs and adjustments to engineer optical equipment. Performs repair work on topographic and cartographic instruments such as clinometers, alidades, transits, levels, theodolites, altimeters, provision plotters, rectifiers, reflecting projectors, stereoscopes, multiplex projectors, reduction printers, tracing tables, and rectangular coordinator plotter.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity and electronics, mathematics, algebra, trigonometry, and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Aptitude for close, exact, painstaking work. Experience in optical or camera manufacturing.

6. Related Service Jobs: None.

FABRICATION AND REPAIR OF SURGICAL, MEDICAL AND DENTAL INSTRUMENTS AND SUPPLIES

1. USOE Cluster: Manufacturing

2. Civilian Title: Orthopedic-Appliance-and-Limb Technician (712.281)

3. Military Titles: (Orthopedic Brace Technician)
   Army: Brace Specialist (42C)
   Air Force: Orthopedic Appliance Specialist (91352)

4. Composite Service Job Statement: Constructs, assembles, repairs and adjusts orthopedic braces and other orthopedic devices. Cuts and fashions devices from materials, such as metal, plastic and leather, using welding equipment, forge, riveting machines, drill, and hand tools. Rebuilds and modifies stock shoes. May harness devices to limbs or stumps, using knowledge of functional anatomy.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in anatomy and biology.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Army: Orthopedic Specialist (91H)
   Navy: Orthopedic Technician (8561)
   Air Force: Orthopedic Clinic Specialist (91233)

FABRICATION AND REPAIR OF SURGICAL, MEDICAL AND DENTAL INSTRUMENTS AND SUPPLIES

1. USOE Cluster: Health
2. Civilian Title: Dental Laboratory Technician (712.381)
3. Military Titles: (Dental Laboratory Technician)
   Army: Dental Removable Prosthetic Specialist (42D); Dental Fixed Prosthetic Specialist (42F)
   Navy: Research Assistant (DT-8714); Dental Equipment Repair Technician (DT-8732); Dental Laboratory Technician (DT-8752); Dental Laboratory Technician, Advanced (DT-8753)
   Air Force: Dental Laboratory Specialist (98250)
   Coast Guard: Dental Technician (DT)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Performs routine procedures pursuant to fabrication and repair of fixed and removable dental prostheses and oral mechanical devices, which include full denture prostheses, fixed and removable partial denture prostheses, individual crowns, inlays, pontics, splints, stabilizers, space retainers, and other fabrications and repairs with use of precious and non-precious metals, acrylic, resins, and porcelain as basic materials. Installs, maintains, and repairs standard-type and electronic dental equipment and appliances in dental operating room or prosthetic laboratory.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general science, biology, chemistry, hygiene, and physiology.
   b. Physical: Normal color discrimination.
   c. Specific: Interest or aptitude for dental work.
6. Related Service Jobs:
   Army: Dental Specialist (91E)
   Navy: Dental Technician (DT)
   Air Force: Dental Specialist (98150); Preventive Dentistry Specialist (98131); Dental Assistant (98330)

FABRICATION AND REPAIR OF SURGICAL, MEDICAL AND DENTAL INSTRUMENTS AND SUPPLIES

1. USOE Cluster: Manufacturing
2. Civilian Title: Orthopedic-Cast Specialist (712.884)
3. Military Titles: (Cast Specialist)
   Army: Orthopedic Specialist (91H)
   Navy: Orthopedic Cast Room Technician (HM-8489)

Air Force: Orthopedic Clinic Specialist (91233)
Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Assists in application and removal of casts and traction in all forms and in maintenance of traction. Assists in minor operative procedures such as, arthrocenteses, suture removal, dressing changes and insertion and removal of skeletal traction devices. Instructs patients in use of crutches, canes and other orthopedic appliances.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general science, biology, chemistry, and hygiene.
   b. Physical: None.
   c. Specific: Desire to help those in need.

6. Related Service Jobs:
Navy: Hospital Corpsman (HM)
Air Force: Medical Service Specialist (90250); Orthopedic Appliance Specialist (91352)

FABRICATION AND REPAIR OF OPTICAL INSTRUMENTS AND LENSES

1. USOE Cluster: Health
2. Civilian Title: Optician, Dispensing (713.251)
3. Military Titles: (Optician's Assistant)
Army: Optical Laboratory Specialist (42E)
Navy: Optician Technician (HM-8463)
Air Force: Optometry Specialist (91255)

4. Composite Service Job Statement: Assists in the testing and fitting of patients for optometric devices. Verifies prescriptions, prepares and dispenses prescription orders. Receives patients, examines optometry record and prepares patients for examination or treatment. Adjusts frames to fit patient by heating and shaping plastic and by bending metal frames with fingers and pliers. May assist the optometrist in fitting patient with contact lenses. Uses the lensometer and other instruments to analyze all prescriptions for conformance to specifications, including spherical power, cylindrical power, axis of cylinder, prism and base curves. May surface-grind and polish special single-vision and all multifocal lenses from opthalmic lens blanks.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general science, biology and chemistry.
   b. Physical: None.
   c. Specific: Experience in first aid, drug stores and hospitals.

6. Related Service Jobs:
Navy: Optician (General) Technician (HM-8462); Hospital Corpsman (HM)
Air Force: Medical Service Specialist (90250)

FABRICATION AND REPAIR OF OPTHALMIC GOODS

1. USOE Cluster: Health
2. Civilian Title: Artificial-Plastic-Eye Maker (713.281)
3. Military Titles: (Artificial-Eye Maker)
Navy: Dental Laboratory Technician, Maxillofacial (DT-8765)

4. Composite Service Job Statement: Assists in fabrication and finishing of those prosthetic appliance which replace the anatomy of the head other than routine dental prosthesis. Assists in fabricating artifical eyes, operates model grinding machines, polishing machines, prosthetic bench lathes, and other prosthetic laboratory instruments required in constructing, processing and finishing maxillofacial prosthetic appliances.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in hygiene, biology, chemistry, general science and physiology.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Dental Technician (DT)

FABRICATION AND REPAIR OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

1. USOE Cluster: Manufacturing

2. Civilian Title: Aircraft-Photographic-Equipment Maintenance Mechanic (714.281)

3. Military Titles: (Aerial Photographic Equipment Maintenance Mechanic)
   Army: Surveillance Photographic Equipment Repairman (41G)
   Navy: Still Picture Camera Shop Maintonanceman (PH-8196); Panoramic Camera Repair Shop Maintenanceman (PH-8197)
   Air Force: Aerospace Photographic Systems Repairman (40451)
   Marine Corps: Aerial Camera Systems Technician (6672); Aerial Camera, ADAS Systems Technician, IMA (6673)

4. Composite Service Job Statement: Inspects, installs, removes, troubleshoots, repairs, overhauls, calibrates, and modifies electronic, radar recording, and optical aerial photographic systems. Operates equipment, sets electronic controls in various operating positions, and evaluates system performance using applicable test procedures, electronic analyzers, and test equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, electronics, physics and chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in photography as a hobby or job. May require appropriate security clearance.

6. Related Service Jobs:
   Army: Photographic Equipment Repair Chief (41H)
   Navy: Photographer's Mate (PH)
   Air Force: Precision Photographic Systems Repairman (40450)
   Coast Guard: Photo-Journalist (PA)

FABRICATION AND REPAIR OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

1. USOE Cluster: Manufacturing

2. Civilian Title: Camera Repairer (714.281)

3. Military Titles: (Camera Repairer)

Army: Camera Repairman Projector Repairman (41F); (41E); Surveillance Photographic Equipment Repairman (41G); Photographic Equipment Repair Chief (41H)

Navy: Photographic Equipment Repairman (PH-8192), Camera Control System Maintenanceman (PH-8195)

Air Force: Precision Photographic Systems Repairman (40450)

Marine Corps: Camera Repairman (4632)

4. Composite Service Job Statement: Repairs and adjusts cameras, using specialized tools and test devices. Disassembles camera, using handtools. Tests and aligns diaphragm, lens mounts, and film transport to minimize optical distortion, using precision gauges. Adjusts range and view finders, using fixed focusing target. Calibrates operation of shutter, diaphragm, and lens carriers with dial settings, using electronic or stroboscopic timing instruments. Fabricates or modifies parts, using bench lathe, grinder, and drill press.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in algebra, physics and chemistry.

b. Physical: Normal color discrimination.

c. Specific: Experience in photography as a job or hobby. May require appropriate security clearance.

6. Related Service Jobs:

Navy: Photographer's Mate (PH)

Air Force: Aerospace Photographic Systems Repairman (40451)

Coast Guard: Photo-Journalist (PA)

FABRICATION AND REPAIR OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

1. USOE Cluster: Manufacturing

2. Civilian Title: Machinists, Motion-Picture Equipment (714.281)

3. Military Titles: (Motion Picture Equipment Repairer)

Army: Projector Repairman (41F)

Navy: Motion Picture Projection Equipment Repairman (EM-4613)

Marine Corps: Audiovisual Equipment Technician (4941)

4. Composite Service Job Statement: Repairs, remodels, and services mechanical parts of projectors, amplifiers and power equipment used in motion picture production: Tests and repairs sound motion picture projectors, sound reproducers, and amplifiers, in accordance with diagrams using electrical and electronic test instruments. Conducts amplifier and projector characteristics tests. Adjusts, and repairs related equipment including the splicing block. Assembles and operates all equipment.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in electricity, electronics, and practical/shop mathematics.

b. Physical: None.

c. Specific: High aptitude for electromechanical work.

6. Related Service Jobs:
    Army: Photographic Repair Chief (41H)
    Navy: Electrician's Mate (EM)
    Air Force: Audiovisual Media Specialist (23150)

FABRICATION AND REPAIR OF WATCHES, CLOCKS AND PARTS

1. USOE Cluster: Manufacturing

2. Civilian Title: Watchmaker (715.281)

3. Military Titles: (Watchmaker)
    Navy: Watch and Clock Instrumentman (IM-1812)

4. Composite Service Job Statement: Repairs, cleans and adjusts mechanisms of watches and clocks. Disassembles parts such as hands, mainspring, escape wheels and balance wheel using pliers, screwdriver and tweezers. Places parts into container of watch-cleaning machine and starts machine that cleans, rinses and dries parts. Tests trueness of balance wheel assembly, using truing calipers, and trues assembly using tweezers. Repairs damaged or worn parts using watchmaker's lathe. Fabricates parts from metals using watchmaker's lathes.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in blueprint reading and shop work.
    b. Physical: Finger dexterity.
    c. Specific: Aptitude for close, exact, painstaking work.

6. Related Service Jobs:
    Navy: Opticalman (OM); Instrumentman (IM)

ASSEMBLY AND REPAIR OF RADIO AND TELEVISION RECEIVING SETS AND PHONOGRAPHS

1. USOE Cluster: Manufacturing

2. Civilian Title: Television Service-and-Repairer (720.281)

3. Military Titles: (Television Equipment Technician)
    Army: Television Equipment Repairman (26T)
    Navy: Closed-Circuit TV Technician (IC-4746)
    Air Force: Television Equipment Repairman (30455)
    Coast Guard: Electronic Technician (ET); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Installs, maintains, repairs, monitors, and analyzes performance of television systems and equipment producing radiated or cable transmitted signals. Tests voltages and resistances of circuits to isolate defect following schematic diagram and using voltmeter, oscilioscope, signal generator, and other electronic testing instruments. Tests and changes tubes. Solders loose connections and repairs or replaces defective parts, using handtools and soldering iron.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electricity and electronics, mathematics, algebra, and physics.
   - b. Physical: Normal color discrimination.
   - c. Specific: Aptitude for electrical work. May require appropriate security clearance.

6. Related Service Jobs:
   - Navy: Electronics Technician (Communications) (ETN); Interior Communications Electrician (IC)
   - Air Force: Ground Radio Communication Equipment Repairman (30454); Radio Relay Equipment Repairman (30450)
   - Marine Corps: Microwave Equipment Repairman (2831); Satellite Terminal Repairman (2833); Ground Radio Repairman (2841); Aviation Radio Repairman (2851)
   - Coast Guard: Sonar Technician (ST)

ASSEMBLY AND REPAIR OF MOTORS, GENERATORS, AND RELATED PRODUCTS

1. USOE Cluster: Transportation

2. Civilian Title: Electric-Motor Repairer (721.281)

3. Military Titles: (Electric Motor Repairer)
   - Army: Fuel and Electrical Systems Repairman (63G); Electrician (51R)
   - Navy: Electrician's Mate (EM); Electrolytic Oxygen Generator (Model 6L16) Maintenance Technician (IC-4752); Electrolytic Oxygen Generator (Model 7L16); Electrical Support Technician (IC-4762)
   - Air Force: Electrician (54250)
   - Marine Corps: Electrical Equipment Repairman (1142)
   - Coast Guard: Electrician's Mate (EM); Aviation Electrician's Mate (AE)

4. Composite Service Job Statement: Repairs electric motors using handtools, coil-winding machine and testing equipment. Disassembles defective motors using screwdriver and wrenches. Tests coils for continuity, insulation resistance, shorts and grounds using ammeter and ohmmeter. Cuts out defective coil windings using wire cutter. Connects coils using soldering iron, solder pot or brazing torch. Replaces components such as fans, bearings and shafts.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electricity, algebra and physics.
   - b. Physical: Normal color discrimination.
   - c. Specific: Aptitude for electrical work.

6. Related Service Jobs:
   - Navy: Electric Motor Rewinder (EM-4615); Interior Communications Electrician (IC)
   - Air Force: Aerospace Ground Equipment Repairman (42153); Aircraft Electrical Repairman (42350)

ASSEMBLY AND REPAIR OF MOTORS, GENERATORS AND RELATED PRODUCTS

1. USOE Cluster: Transportation
2. Civilian Title: Electric-Motor Winder (721.884)
3. Military Titles: (Electric Motor Winder)
   - Army: Power Generation Equipment Repairman (52D)
   - Navy: Electrical Motor Rewinder (EM-4615)
4. Composite Service Job Statement: Rewinds AC and DC motor and generator stators, rotors, field coils and armatures utilizing round wire or formed coils. Takes winding data, replaces brushes, adjusts brush rigging, dips, bakes, renews bearing, assembles and test runs.
5. Desirable Qualifications Summary:
   - a. Academic Background: Course in electricity and practical and shop mathematics.
   - b. Physical: None.
   - c. Specific: High aptitude for electro-mechanical work.
6. Related Service Jobs:
   - Navy: Electrician's Mate (EM)
   - Coast Guard: Electrician's Mate (EM)

ASSEMBLY AND REPAIR OF ELECTRICAL EQUIPMENT

1. USOE Cluster: Manufacturing
2. Civilian Title: Audio-Video Repairer (729.281)
3. Military Titles: (Audio-Video Repairer)
   - Army: Television Equipment Repairman (26T)
   - Navy: Interior Communications Electrician (IC); Tradevman (TD)
   - Marine Corps: Audiovisual Equipment Technician (4941)
   - Coast Guard: Aviation Electronics Technician (AT); Electronics Technician (ET)
4. Composite Service Job Statement: Installs and repairs audio-video equipment, such as tape recorders, public address systems, slide and motion picture projectors, and record players, using hand tools, soldering iron and special testing equipment. Inspects equipment and makes minor repairs or replacements.
5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electrical shop, electronic shop and physics.
   - b. Physical: Normal color discrimination.
   - c. Specific: Aptitude for electrical work.
6. Related Service Jobs:
   - Army: Projector Repairman (41F)
   - Navy: Electronics Technician (ET); Aviation Electronics Technician (AT)
   - Coast Guard: Sonar Technician (SO); Telephone Technician (TT)

ASSEMBLY AND REPAIR OF ELECTRICAL EQUIPMENT

1. USOE Cluster: Manufacturing

2. Civilian Title: Electrical Instrument Repairer (729.281)

3. Military Titles: (Electrical Instrument Repairer)
   Army: Electronics Equipment Repairman (35B); Unattended Ground Sensor Systems Repairman (26U); Biomedical Equipment Repairman (35G)
   Navy: Instrumentman (IM); Aircraft Test Equipment Technicians (AT-6621) (AT-6622) (AT-6623)
   Air Force: Avionics Instrument System Specialist (32551); Precision Measuring Equipment Specialist (32450)
   Marine Corps: Electronic Instrument Repairman (2871); Electronic Calibration Technician (2872); Metrology Technician (2874); Radiac Instrument Technician (2877); Calibration Chief (2894); Aviation Precision Measurement Equipment Repair Technician (6683)
   Coast Guard: Electronics Technician (ET); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Aligns, inspects, repairs, modifies and calibrates electrical/electronics precision measurement equipment. Tests instruments for resistance, voltage and other characteristics using potentiometer, voltage divider and other testing devices. Traces circuits and identifies operating characteristics of equipment to determine malfunctions.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, trigonometry, physics and calculus.
   b. Physical: Normal color discrimination.
   c. Specific: Must be high school graduate (Air Force). Electrical and mechanical aptitude. Experience in electrical trades.

6. Related Service Jobs:
   Navy: Aviation Electronics Technician (AT); Aviation Fire Control Technician (AQ); Aviation Anti-submarine Warfare Technician (AX); Aviation Electrician's Mate (AE)
   Air Force: Automatic Flight Control Systems Specialist (32550)
   Marine Corps: Mechanical Calibration Technician (2873); Aviation Precision Measurement Equipment Calibration Technician (6682)

ASSEMBLY AND REPAIR OF ELECTRICAL EQUIPMENT

1. USOE Cluster: Manufacturing
2. Civilian Title: Electromedical-Equipment Repairer (729.281)
3. Military Titles: (Medical Equipment Repairer)
   Army: Medical Equipment Repairman (35G); Bio-medical Equipment Maintenance Chief (35U)
   Navy: Medical Repair Mechanic (HM-8498)
   Air Force: Bio-Medical Equipment Maintenance Repairman (40350)

4. Composite Service Job Statement: Tests and repairs mechanical, electromechanical, electromedical, and dental equipment. Repairs X-ray, operating tables, lamps, electrocardiographic, basal metabolism, electroencephalographic, laboratory, pharmaceutical and orthopedic treatment apparatus and machines. Repairs, tests and modifies dental equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, trigonometry and physics.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM); Dental Technician (DT)

OCCUPATIONS IN FABRICATING AND REPAIR OF MUSICAL PARTS

1. USOE Cluster: Manufacturing
2. Civilian Title: Musical Instrument Repairer (730.281)
3. Military Titles: (Musical Instrument Repairer)
   Marine Corps: Instrument Repairman (5523)

4. Composite Service Job Statement: Inspects, repairs and overhauls percussion, stringed, and wind instruments. Inspects the condition of musical instruments visually or by testing with gauges and other precision measuring devices to determine serviceability. Determines by playing if instruments are functioning properly.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in music.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Musician (MU)
   Air Force: Instrumentalist (87150)
   Coast Guard: Musician (QC: MU)

FABRICATION OF AMMUNITION, FIREWORKS, EXPLOSIVES AND RELATED

1. USOE Cluster: Manufacturing
2. Civilian Title: Inspector (Ammunition) III (737.387)
3. Military Titles: (Ammunition Inspector)
   Army: Ammunition Inspector (55X)
   Navy: Gunner's Mate (Guns) (GMG); Mineman (MN); Torpedoman's Mate (TM)
   Air Force: Munitions Maintenance Specialist (46150)
   Marine Corps: Ammunition Technician (2311)
   Coast Guard: Dangerous Cargoman (QC: DG)

4. Composite Service Job Statement: Inspects ammunition, ammunition components, loading plants, and magazine areas to detect unsafe or unserviceable items and to enforce safety regulations. Inspects cartridges

and other metallic items for corrosion or physical defects. Visually examines explosive components for deterioration. Inspects physical condition of plant building and magazines for adequate safety equipment. Observes methods of storing and handling ammunition and actions of plant personnel for compliance with safety regulations. Inspects incoming and outgoing shipments for proper loading, bracing, and marking. Prepares reports on findings. May observe loading processes for quality of production and observance of safety regulations. May supervise personnel engaged in salvage or destruction of unserviceable ammunition and explosives.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, mechanical drawing and practical mathematics.
   b. Physical: Normal color discrimination. Manual dexterity.
   c. Specific: Must not be allergic to explosive compositions.

6. Related Service Jobs:
   Army: Ammunition Foreman (55Z)
   Navy: Aviation Ordnanceman (AO)
   Air Force: Small Arms Specialist (75350)
   Marine Corps: Aviation Ordnance Munitions Man (6521)
   Coast Guard: Gunner's Mate (GM); Aviation Survivalman (ASM)

FABRICATION AND REPAIR OF PRODUCTS MADE FROM ASSORTED MATERIALS

1. USOE Cluster: Manufacturing

2. Civilian Title: Canvas Worker (739.381)

3. Military Titles: (Canvas Worker)
   Army: Canvas Repairman (43K)
   Marine Corps: Fabric Repairman (3211); Fabric Repair Chief (3212)
   Coast Guard: Boatswain's Mate (BM); Aviation Survival Man (ASM)

[illegible] Composite Service Job Statement: Performs or assists in the installation, repair, test, maintenance and operation of mobile or fixed textile machinery and equipment. Performs or assists in the repair and upholstering of the interior of motor vehicles by removing, repairing, or replacing covers, twine, padding and springs. Performs or assists in the design, fabrication and repair of canvas and web equipment such as tarpaulins, gun and instrument covers and cartridge belts. May perform or assist in the alteration and mending of clothing.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Boatswain's Mate (BM); Aircrew Survival Equipmentman (PR)
   Air Force: Fabric and Rubber Products Specialist (58250)
   Marine Corps: Flight Equipment Man (6064)

FABRICATION AND REPAIR OF PRODUCTS MADE FROM ASSORTED MATERIALS

1. USOE Cluster: Public Services

2. Civilian Title: Survival Equipment Repairer (739.381)

3. Military Titles: (Survival Equipment Repairer)

Navy: Aircrew Survival Equipmentman (PR); Aviation Structural Mechanic (Safety Equipment) (AME)

Air Force: Fabric and Rubber Products Specialist (58250); Aircrew Life Support Specialist (92250); Aircrew Egress Systems Repairman (42252)

Marine Corps: Aircraft Safety Equipment Mechanic (6062); Flight Equipment Man (6064); Aircraft Safety Equipment Chief (6067)

Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Inspects, removes, maintains, and repairs, safety belts, shoulder harnesses, and integrated flight harnesses in aircraft; inertial reels, seat and canopy ejection systems; gaseous and liquid oxygen systems; life raft ejection systems; fire extinguishing systems; portable fire extinguishers, emergency egress systems, air conditioning, heating cabin and cockpit pressurization, ventilating, and anti-G systems; and associated lines, fittings, rigging, valves and control mechanisms. Replenishes liquid and gaseous oxygen systems; removes and installs oxygen system valves, gauges, connectors and regulators. Inspects, removes, and installs ejection seats, lap belts, and face curtain mechanisms. Inspects, removes, installs and adjusts firing mechanisms and cartridges for ejection seats, lap belts and canopies. Conducts preflight and postflight aircraft inspections daily. Instructs aircrews in purposes, operation, and care of individual flying equipment.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in algebra, plane geometry and physics.

b. Physical: Normal color discrimination.

c. Specific: Ability to perform extremely careful and accurate work.

6. Related Service Jobs:

Air Force: Survival Specialist (92150)

UPHOLSTERING AND FABRICATION AND REPAIR OF MATTRESSES AND BEDSPRINGS

1. USOE Cluster: Manufacturing

2. Civilian Title: Automobile Upholsterer (780.381)

3. Military Titles: (Upholsterer)

Army: Canvas Repairman (43K)

Marine Corps: Fabric Repairman (3211); Fabric Repair Chief (3212)

Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Repairs or replaces upholstery in automobiles, buses and trucks. Removes old upholstery from seats and door panels of vehicle. Measures new padding and covering materials, and cuts them to required dimensions, using knife or shears. Adjusts or replaces seat springs and ties them in place. Sews covering material together, using sewing machine. Fits covering to seat frame and secures it with glue and tacks.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
Navy: Aircrew Survival Equipmentman (PR)
Air Force: General Purpose Vehicle Repairman (47350)
Coast Guard: Boatswain's Mate (BM)

HAND SEWERS, MENDERS, EMBROIDERERS, KNITTERS AND RELATED

1. USOE Cluster: Public Services

2. Civilian Title: Parachute Inspector (782.687)

3. Military Titles: (Parachute Rigger)
Army: Parachute Rigger (43E)
Navy: Aircrew Survival Equipmentman (PR)
Air Force: Parachute Rigger (58150)
Marine Corps: Flight Equipment Man (6064); Air Delivery Man (7141)
Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Inspects parachutes and parachute parts to detect flaws in materials and workmanship. Spreads parachute or part, such as canopy and shroud webbing, on glass-topped table or over fluorescent light, and examines them for flaws, such as defective material and stitching, crooked hems and tears.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general shop and sewing.
   b. Physical: Normal color discrimination.
   c. Specific: Must be qualified parachutist (Army). Ability to perform extremely careful and accurate work.

6. Related Service Jobs: None.

TAILORS AND DRESSMAKERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Alteration Tailor (785.281)

3. Military Titles: (Tailor)
Army: Textile Repairman (43J)
Navy: Tailor (SH-3142)

4. Composite Service Job Statement: Performs textile repair. Sizes, fits, and sews worn or damaged clothing. Bastes and fells seams in preparation for machine sewing. Darns or handweaves holes in fabrics. Remakes worn or frayed buttonholes. Replaces buttons and patches, darns holes, mends tears and repairs component

parts of rubber, resin-coated and oil-treated raincoats. Patches and darns holes of textile items, such as sheets, blankets and sleeping bags.

5. Desirable Qualifications Summary:
   - a. Academic Background: None
   - b. Physical: Eye-hand coordination. Finger dexterity.
   - c. Specific: Courses or experience in tailoring.

6. Related Service Jobs:
   - Army: Canvas Repairman (43K)
   - Navy: Aircrew Survival Equipmentman (PR); Ship's Serviceman (SH)
   - Air Force: Fabric and Rubber Products Specialist (58250)
   - Marine Corps: Fabric Repairman (3211)

FABRICATION AND REPAIR OF TEXTILE, LEATHER, AND RELATED PRODUCTS

1. USOE Cluster: Manufacturing

2. Civilian Title: Supervisor, Canvas Products (789.137)

3. Military Titles: (Canvas Products Supervisor)
   - Army: Fabric and Leather Repair Foreman (43M)
   - Navy: Boatswain's Mate (BM)
   - Air Force: Fabric and Rubber Products Supervisor (58270)
   - Marine Corps: Fabric Repair Chief (3212); Repair Chief (3253)
   - Coast Guard: Boatswain's Mate (BM); Aviation Survivalman (ASM)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in fabricating and repairing canvas products, such as awnings, tarpaulins, and tents. Directs workers in cutting, assembling, and sewing canvas. Examines parts and finished or repaired articles for defects such as holes and missed stitches to maintain qualitative standards.

5. Desirable Qualifications Summary:
   - a. Academic Background: None.
   - b. Physical: Near vision and eye-hand coordination.
   - c. Specific: None

6. Related Service Jobs:
   - Navy: Aircrew Survival Equipmentman (PR)

TAB 8

STRUCTURAL WORK OCCUPATIONS

This category includes occupations concerned with fabricating, erecting, installing, paving, painting, repairing, and similarly working structures or structural parts, such as bridges, buildings, roads, motor vehicles, cables, airplane engines, girders, plates, and frames. The work generally occurs outside a factory or shop environment, except for factory production line occupations. Tools used are hand or portable power tools, and such materials as wood, metal, concrete, glass, and clay are involved. Workers are frequently required to have a knowledge of the materials with which they work, e.g., stresses, strains, durability, and resistance to weather.

FITTING, BOLTING, SCREWING AND RELATED

1. USOE Cluster: Manufacturing
2. Civilian Title: Structural-Steel Worker (801.781)
3. Military Titles: (Steel Worker)
   Army: Structures Specialist (51C); Bridge Specialist (12C)
   Navy: Steelworker (SW)
   Marine Corps: Combat Engineer (1371)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Performs any combination of the following duties to raise, place, and unite girders, columns, and other structural-steel members to form completed structures or structure frameworks, working as a member of a crew. Assembles, erects and disassembles floating and fixed prefabricated bridges, light rafts or ferries using drift pins, bolts, and wrenches.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in metal working.
   b. Physical: Normal color discrimination. High degree of physical strength.
   c. Specific: Ability to work in high places (Navy).
6. Related Service Jobs:
   Navy: Hull Maintenance Technician (HT)
   Air Force: Structural Technician (55270)

TINSMITHS, COOPERSMITHS, AND SHEET METAL WORKERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Sheet Metal Worker (804.281)
3. Military Titles: (Sheet Metal Worker)
   Navy: Sheet Metal Technician (SW-6017); Hull Maintenance Technician (HT); Aviation Structural Mechanic (Structures) (AMS)
   Air Force: Sheet Metal Specialist (53350)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Fabricates, installs, and repairs sheet metal products such as heating ducts, ventilators, and mechanical drive guards. Takes measurements from drawings and lays out working detail for fabrication of items. Cuts and trims sheet metal, using hand and powercutting tools such as drills and punches. Repairs and installs heating and ventilating ducts, sheet metal roofing, guttering, and downspouting. Cuts, trims, forms, shapes, rivets, and solders patches on sheet metal assemblies. Installs sheet metal components such as shower stalls, fireproof partitions, doors, canopies, hoods, and vents by riveting, bolting, and nailing supporting brackets, straps and braces.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in sheet metal shop and machine shop.
   b. Physical: None.
   c. Specific: Experience in plumbing, carpentry and welding.

6. Related Service Jobs:
Army: Airframe Repairman (68G); Heating and Ventilating Specialist (51J)
Navy: Steelworker (SW)
Air Force: Heating Systems Specialist (54750); Machinist (53150); Airframe Repair Specialist (53450)
Marine Corps: Aircraft Structures Mechanic (6042)
Coast Guard: Aviation Structural Mechanic (AM)

BOILERMAKERS

1. USOE Cluster: Manufacturing

2. Civilian Title: Boilermaker I (805.281)

3. Military Titles: (Boilermaker)
Army: Steam Locomotive Repairman (65B)
Navy: Boilermaker (BR)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Assembles, analyzes defects in, and repairs boilers, pressure vessels, tanks and vats, following blueprints and using handtools and power tools. Tests assembled vessels by pumping water or gas under specified pressure into vessel and observing instruments for evidence of leakage. May line fire box with refractory brick and asbestos rope and blocks. May fabricate such parts as stacks, uptakes, and chutes to adapt boiler to premises in which it is installed.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in practical mathematics, physics and chemistry.
b. Physical: None.
c. Specific: Mechanical aptitude. Experience in welding techniques and metallurgical testing.

6. Related Service Jobs:
Navy: Boiler Technician (BT); Machinist's Mate (MM); Utilitiesman (UT); Hull Maintenance Technician (HT)
Air Force: Heating Systems Specialist (54750)

TRANSPORTATION EQUIPMENT ASSEMBLERS AND RELATED

1. USOE Cluster: Transportation

2. Civilian Title: Shipfitter (806.381)

3. Military Titles: (Shipfitter)
Army: Marine Hull Repairman (61F)
Navy: Hull Maintenance Technician (HT)

4. Composite Service Job Statement: Lays out and fabricates metal structural parts such as plates, plumbing piping systems, bulkheads and frames and braces them in position within hull of ship for riveting or welding. Repairs or inspects hulls and accessories of harbor craft amphibians.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in sheet metal shop, shop mathematics, plumbing and machine shop.
   b. Physical: Normal color discrimination.
   c. Specific: Mechanical aptitude.

6. Related Service Jobs:
   Navy: Aviation Structural Mechanic (AM); Molder (ML); Steelworker (SW); Utilitiesman (UT)

TRANSPORTATION EQUIPMENT ASSEMBLERS AND RELATED

1. USOE Cluster: Manufacturing

2. Civilian Title: Tester, Plumbing Systems (806.381)

3. Military Titles: (Aircraft Environmental Systems Mechanic)
   Navy: Aviation Structural Mechanic (AM)
   Air Force: Aircraft Environmental Systems Repairman (42251)
   Coast Guard: Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Tests plumbing systems installed in aircraft for conformance to specifications, following manuals and blueprints and using test equipment and hand tools. Examines hydraulic and oxygen lines and heating systems to detect loose fittings and dented or bent tubing. Connects systems to test equipment, such as flowmeter, pressure gauge and pumps, using fittings and wrenches. Fills tanks and lines with oxygen, liquids or gases, using hand pump or compressor machines. Adjusts and regulates valves, drains and locks, and observes dial readings to detect leakage and to measure flow of air and liquids. Closes and locks doors, windows and hatches of pressurized cabin to verify fit and locking devices.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, plane geometry, physics and shop work.
   b. Physical: Normal color discrimination.
   c. Specific: High degree of aptitude for mechanical work.

6. Related Service Jobs:
   Air Force: Aircrew Egress Systems Repairman (42252); Refrigeration and Air Conditioning Specialist (54550)

BODYWORKERS, TRANSPORTATION EQUIPMENT

1. USOE Cluster: Transportation

2. Civilian Title: Automobile-Body Repairer (807.381)

3. Military Titles: (Vehicle Body Repairer)
   Army: Metal Body Repairman (44B)
   Navy: Construction Mechanic (CM)
   Air Force: Vehicle Body Repairman (47351)
   Marine Corps: Body Repairman (3513)

4. Composite Service Job Statement: Repairs damaged bodies and body parts of automotive vehicles such as automobiles, trucks and jeeps. Uses gas and electric welding equipment to cut and weld metal parts of vehicle to repair holes, straighten or bind breaks in body or chassis. Prepares repaired parts for painting by sanding and rubbing metal using hand or machine sanding methods. Paints all or part of vehicle using brush or power spraying equipment. May repair radiators or cut and fit vehicle glass.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in machine shop.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in automobile body work.

6. Related Service Jobs:
   Navy: Aviation Structural Mechanic (AM)
   Marine Corps: Aircraft Structures Mechanic (6042)
   Coast Guard: Aviation Structural Mechanic (AM)

BODYWORKERS, TRANSPORTATION EQUIPMENT

1. USOE Cluster: Transportation

2. Civilian Title: Skin Fitter (807.381)

3. Military Titles: (Airframe Repair Specialist)
   Army: Airframe Repairman (68G)
   Navy: Aviation Structural Mechanic (Structures) (AMS)
   Air Force: Airframe Repair Specialist (53450)
   Marine Corps: Aircraft Structures Mechanic (6042)
   Coast Guard: Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Repairs, modifies, and fabricates aircraft metal, plastic, fiberglass, and honeycomb structural parts, components and assemblies. Inspects internal and external aircraft structures and fixed and movable control services to determine repair necessary to restore original strength, weight, and contour. Makes layout on sheet metal in accordance with design specifications. Removes, repairs, and replaces damaged parts. Installs reinforcements, patches or replacement parts. Cuts and trims sheet metal parts. Repairs or replaces plastic, fiberglass, and bonded honeycomb sections. Repairs or replaces retaining frames and installs plastic sections in aircraft enclosures. Designs and constructs forming jigs. Fabricates aircraft flexible control cables. Fabricates aircraft nonflexible tubing components.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mechanics or mechanical theory, physics, geometry, shop mathematics, industrial arts, use of blueprints, drafting or mechanical drawing.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in automobile body work.

6. Related Service Jobs:
   Navy: Hull Maintenance Technician (HT); Steelworker (SW)
   Air Force: Sheet Metal Specialist (53350)

COMBINATION ARC WELDERS AND GAS WELDERS

1. USOE Cluster: Manufacturing
2. Civilian Title: Welder, Combination (812.884)
3. Military Titles: (Welder)
   Army: Welder (44C); Airframe Repairman (68G)
   Navy: Plate Welder (HT-4952); Pressure Hull Welder (HT-4953); High Pressure Pipe Welder (HT-4955); Nuclear Power Plant Components Welder (HT-4956); Inert-Gas-Arc Welder (AM 7222); Hull Technician (HT); Manual Torch Blazer (HT-4951); Submarine Nuclear Propulsion Plant Operator-Welder (3351); Steelworker (SW); Utilitiesman (UT)
   Air Force: Metals Processing Specialist (53250)
   Marine Corps: Metal Worker (1316); Aircraft Welder (6043)
   Coast Guard: Aviation Structural Mechanic (AM); Damage Controlman (DC)

4. Composite Service Job Statement: Welds metal parts together according to layouts, blueprints or work orders, using both gas welding or brazing and any combination of arc welding processes. Welds butt, lap, tee and corner joints in flat, vertical, horizontal and overhead working positions.

5. Desirable Qualifications Summary:
   a. Academic Background: Machine shop, sheet metal shop, practical and shop mathematics, and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Experience or commercial course in welding.
6. Related Service Jobs:
   Air Force: Vehicle Body Repairman (47351)

ASSEMBLY, INSTALLATION AND REPAIR OF GENERATORS, MOTORS ACCESSORIES AND RELATED

1. USOE Cluster: Manufacturing
2. Civilian Title: Electrician, Power House (820.281)
3. Military Titles: (Power Plant Operator)
   Army: Power Station Operator (52E)
   Navy: Shore Based Power Plant Technician (CE-5632)
   Air Force: Electrical Power Production Specialist (54350)
   Coast Guard: Electrician's Mate (EM)

4. Composite Service Job Statement: Installs, operates, maintains, repairs and inspects electrical power production plants and equipment. Starts, stops, and regulates motor and turbine driven generators to attain specified power output.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop, practical mathematics, algebra and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Experience or courses in basic theory of electricity, wiring, motors and generators.

6. Related Service Jobs:
   Navy: Construction Electrician (CE)
   Air Force: Electrician (54250)

ASSEMBLY, INSTALLATION AND REPAIR OF TRANSMISSIONS AND DISTRIBUTION LINES AND CIRCUITS

1. USOE Cluster: Communications and Media

2. Civilian Title: Line Supervisor (Light, Heat and Power) (821.131)

3. Military Titles: (Line Supervisor)
   Army: Electrician (51R)
   Navy: Construction Electrician (CE)
   Air Force: Outside Wire and Antenna Maintenance and Repair Technician (36170); Electric Powerline Technician (54271)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in construction and repair of overhead powerlines. Determines and locates cause of current interruptions. Trains workers in repair of powerlines.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, communications, algebra and physics.
   b. Physical: None.
   c. Specific: Experience as telephone lineman. Ability to work in high places.

6. Related Service Jobs:
   Air Force: Cable Splicing Supervisor (36174)
   Coast Guard: Electrician's Mate (EM)

ASSEMBLY, INSTALLATION AND REPAIR OF TRANSMISSIONS AND DISTRIBUTION LINES AND CIRCUITS

1. USOE Cluster: Construction

2. Civilian Title: Line Maintainer (821.381)

3. Military Titles: (Repair Lineman)
   Army: Electrician (51R)
   Navy: Construction Electrician (CE)
   Air Force: Electric Power Line Specialist (54251)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Repairs and replaces transmission and distribution powerlines between generating stations, substations and consumers, requiring use of precautionary work methods and safety equipment due to electrical hazards present when working on or near energized conductors and electrical accessories. Opens switches, or clamps grounding device to energized equipment to de-energize lines or accessories as directed. Climbs poles to remove broken or defective wires. Secures new wires to crossarm

insulators and splices wire to adjoining sections of line to complete circuit. Transfers wires from defective poles to new poles. Installs pole hardware and such auxiliary equipment as transformers, lightning arrestors, switches, fuses and insulators, using hand tools. Suspends insulated ladders and platforms from pole cross-arms and covers energized lines with rubber mats to facilitate safe handling of high-voltage lines without interrupting service by power shutoff. Uses long insulated poles (hot sticks) fitted with mechanically or hydraulically operated grasping or crimping tools.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electricity, shop mathematics and physics.
   - b. Physical: Normal color discrimination.
   - c. Specific: Must not suffer from acrophobia. Experience as electric power or telephone lineman.

6. Related Service Jobs:
   - Navy: Electrician's Mate (EM); Interior Communications Electrician (IC)
   - Air Force: Outside Wire and Antenna Maintenance Repairman (36150); Cable Splicing Specialist (36154)
   - Coast Guard: Electrician's Mate (EM)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communications and Media

2. Civilian Title: Central-Office-Repairer Supervisor (822.131)

3. Military Titles: (Communications Director)
   - Army: Tactical Communications Chief (31G); Tactical Circuit Controller (31N)
   - Navy: Communications Technician (Maintenance) (CTM); Radioman (RM)
   - Air Force: Telecommunication System Control Superintendent (30790)
   - Marine Corps: Operational Communication Chief (2591); Telecommunications Maintenance Chief (2891)
   - Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Directs and supervises activities of workers engaged in construction, operation and maintenance of telephone or telegraph communication systems and electric power equipment. Recommends improvement deletion or addition to communication facilities. Conducts on-the-job training and performs administrative duties to insure efficient operation. Inspects communication equipment for serviceability and schedules maintenance.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in algebra, electricity, physics, and chemistry.
   - b. Physical: Normal color discrimination. High degree of mechanical aptitude.
   - c. Specific: Must be eligible to receive appropriate security clearance.

6. Related Service Jobs:
   - Air Force: Communications Center Operations Supervisor (29190)
   - Marine Corps: Wire Chief (2519); Radio Chief (2537); Communication Center Chief (2549)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communications and Media
2. Civilian Title: Line Supervisor (Tel. & Tel.) (822.131)
3. Military Titles: (Telephone Line Supervisor)
   - Army: Tactical Communications Chief (31G)
   - Navy: Construction Electrician (CE)
   - Air Force: Electric Powerline Technician (54271)
   - Marine Corps: Wire Chief (2519)
   - Coast Guard: Telephone Technician (TT)
4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in construction, rearrangement and repair of open-wire, underground and aerial cable plant communication equipment. Inspects connection, fittings and installed wire and cable sections for conformance to specifications. Trains subordinates in repair of telephone lines.
5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electricity, shop mathematics and physics.
   - b. Physical: Normal color discrimination.
   - c. Specific: Must not suffer from acrophobia. Experience as telephone lineman.
6. Related Service Jobs:
   - Army: Area Communications Chief (31Z)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communication and Media
2. Civilian Title: Automatic-Equipment Technician (822.281)
3. Military Titles: (Telegraphic Transmitting Technician)
   - Army: Teletypewriter Repairman (31J)
   - Navy: Communication Technician (Maintenance) (CTM); Communication System Technicians (CT-481A thru 48LL); Teletype Repairman (RM-2342, RM-2345, RM-2346); Cryptographic Machines Repairman (RM-2314); Radio Equipment (Submarine) Maintenanceman (RM-2333)
   - Air Force: Missile Control Communication Systems Repairman (36253); Electronic Communications and Cryptographic Equipment Systems Repairman (30650); Communications and Relay Center Equipment Repairman, Electromechanical (36350); Electronic-Mechanical Communications and Cryptographic Equipment Systems Repairman (30651)
   - Marine Corps: Teletype Technician (2818); KG-13 Teletype Technician (2819); Electronic Switching Equipment Technician (2822); Technical Controller (2823); Digital Subscriber Terminal Technician (2826); Mobile Data Terminal Technician (2827); Mobile Communications Central Technician (2829)
   - Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Analyzes defects in and repairs manual and automatic telegraphic transmitting and receiving apparatus, such as teletypewriters, facsimile-recording devices, and switching equipment: Tests and adjusts equipment, using testing devices, such as signal generators and ohmmeters, following blueprints and wiring diagrams and using handtools. Tests and regulates telegraph repeaters.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, mathematics and electricity.
   b. Physical: Normal color discrimination.
   c. Specific: Amateur radio operator experience. Must be eligible to receive appropriate security clearance.

6. Related Service Jobs:
   Navy: Electronic Technician (ET); Aviation Electronics Technician (AT); Aviation Fire Control Technician (AQ); Fire Control Technician (FT); Radioman (RM)
   Coast Guard: Electronics Technician (ET)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communications and Media

2. Civilian Title: Central Office Repairer (822.281)

3. Military Titles: (Telephone Equipment Repairer)
   Army: Dial Central Office Repairman (36H); Manual Central Office Repairman (36G)
   Navy: Automatic Telephone Repairman (IC-4712); Central Office Exchange Technician (CE-5642)
   Air Force: Telephone Switching Equipment Repairman Electro-Mechanical (36251)
   Marine Corps: Central Office Installer-Repairman (2814); Mobile Dial Central Technician (2821)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Installs, repairs or replaces and conducts operating and electrical tests on dial or manual central office telephone exchange equipment. Wires mainframe, switchboard, relay racks and related units. Makes wire connections between outside lines and inside plant. Tests and operates repaired equipment to assure proper functioning.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, physics, electricity and communications.
   b. Physical: Normal color discrimination. Normal hearing (Coast Guard).
   c. Specific: Special aptitude for blueprint reading and electrical work.

6. Related Service Jobs:
   Navy: Interior Communications Electrician (IC); Construction Electrician (CE)
   Air Force: Electronic Switching Systems Repairman (36252); Missile Control Communications Systems Repairman (36253)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communications and Media

2. Civilian Title: Installer-Repairer (822.281)

3. Military Titles: (Telephone Equipment Installer)
   Army: Telephone Installer and Lineman (36C)
   Navy: Interior Communications Electrician (IC); Construction Electrician (CE)
   Air Force: Telephone Equipment Installer-Repairman (36254)
   Marine Corps: Telephone Technician (2811)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Installs and maintains telephone and auxiliary equipment: Assembles telephone equipment, mounts brackets, and connects wire leads. Tests newly installed equipment and equipment on which trouble has been reported. Repairs or replaces faulty equipment using electrician's hand tools.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electric shop, physics and practical mathematics.
   b. Physical: Normal color discrimination, depth perception, gait and balance are mandatory. Physical ability to perform climbing duties.
   c. Specific: Freedom from fear of heights is mandatory.

6. Related Service Jobs:
   Army: Tactical Wire Operations Specialist (36K); Manual Central Office Repairman (36G); Dial Central Office Repairman (36H)
   Air Force: Telephone Switching Equipment Repairman, Electro/Mechanical (36251)
   Marine Corps: Central Office Installer-Repairman (2814)
   Coast Guard: Electrician's Mate (EM); Fire Control Technician (FT)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communications and Media

2. Civilian Title: Line Installer-Repairer (822.381)

3. Military Titles: (Telephone Installer)
   Army: Antennaman (36D); Tactical Wire Operations Specialist (36K); Telephone Installer and Lineman (36C)
   Navy: Construction Electrician (CE)
   Air Force: Outside Wire and Antenna Maintenance Repairman (36150)
   Marine Corps: Wireman (2511)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Installs and repairs telephone and telegraph lines (wires and cables) according to diagrams, and using electrician's hand tools. Ascends poles or enters tunnels and sewers to cut in feeder lines, attach appliances, such as terminal boxes and repeaters, and repair and replace defective lines and auxiliary equipment. Unreels and strings lines from pole to pole and from pole to building. Installs

hardware, such as conduits and insulators, and attaches appliances on lines. Pulls lines through ducts by hand or by use of winch.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, communications, algebra and physics.
   b. Physical: Normal color discrimination. Normal hearing (Coast Guard).
   c. Specific: Experience as telephone lineman. Ability to work in high places.

6. Related Service Jobs:
   Navy: Electrician's Mate (EM); Interior Communication Electrician (IC)
   Air Force: Cable Splicing Maintenance Specialist (36154); Electric Powerline Specialist (54251)

ASSEMBLY, INSTALLATION AND REPAIR OF WIRE COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Communications and Media

2. Civilian Title: Station Installer (822.381)

3. Military Titles: (Telephone Equipment Installer)
   Army: Telephone Installer and Lineman (36C)
   Navy: Construction Electrician (CE); Interior Communications Electrician (IC)
   Air Force: Telephone Equipment Installer-Repairman (36254)
   Marine Corps: Telephone Technician (2811)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Installs telephone station equipment such as switching equipment, and telephones. Climbs poles to attach outside lines. Connects telephone cable terminals with inside wires, using drop (outside) wire and clamps. Assembles equipment on premises and installs related inside wiring, using hand tools and following installation diagrams and standard instructions. Tests installation to insure that it functions properly. May locate and clear trouble in equipment and wiring.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electric shop and shop mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Aptitude or experience in electrical work.

6. Related Service Jobs:
   Army: Tactical Wire Operations Specialist (36K)
   Air Force: Telephone Switching Equipment Repairman, Electro/Mechanical (36251); Electronic Switching Systems Repairman (36252); Missile Control Communication Systems Repairman (36253)
   Marine Corps: Wireman (2511)

ASSEMBLY, INSTALLATION AND REPAIR OF ELECTRONIC COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Manufacturing

2. Civilian Title: Meteorological-Equipment Repairer (823.281)

3. Military Titles: (Meteorological Equipment Repairer)
Army: Meteorological Equipment Repairman (35D)
Navy: Meteorological/Oceanographic Equipment Maintenance Technician (ET 14-13); ASWEPS Technician (AG-742)
Air Force: Weather Equipment Repairman (30250); Airborne Meteorological/Atmospheric Research Equipment Repairman (30251)
Marine Corps: Satellite Terminal Repairman (2833); Aviation Meteorological Equipment Repairman (2853); Meteorology Technician (2874)
Coast Guard: Marine Science Technician (MST); Electronic Technician (ET)

4. Composite Service Job Statement: Performs any one or a combination of the following duties: Alines, calibrates and performs maintenance on weather radar, television, microwave relays, VHF and UHF transmitters and receivers. Repairs and calibrates meteorological sensors, recorders, indicators, telemetry and computer systems. Performs preventive maintenance on all meteorological/oceanographic systems.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in electronics, electricity, physics, algebra, trigonometry and shop.
b. Physical: Normal color discrimination. Normal hearing (Coast Guard).
c. Specific: May be required to receive appropriate security clearance. Good practical knowledge of mathematics. Experience in amateur radio, mechanic or electrical trades.

6. Related Service Jobs:
Navy: Electronic Technician (ET); Aviation Electronics Technician (AT); Aerographer's Mate (AG)
Coast Guard: Aviation Electronics Technician (AT)

ASSEMBLY, INSTALLATION AND REPAIR OF ELECTRONIC COMMUNICATION, DETECTION AND SIGNALLING EQUIPMENT

1. USOE Cluster: Manufacturing
2. Civilian Title: Radio Mechanic II (823.281)
3. Military Titles: (Radio Equipment Repairer)
Army: Electronic Warfare Equipment Repairman (26K); Surveillance Infrared Repairman (26N); Fixed Plant Carrier Repairman (32E); Fixed Station Chief (32Z); Strategic Microwave System Repairman (26V); Satellite Communications Ground Station Repairman (26Y); Radio Propogation Specialist (26P); Target Aircraft Control System Mechanic (31R); Field Communications Electronics Equipment Mechanic (31B); Multichannel Communications Equipment Repairman (31L); Tactical Microwave Systems Repairman (26L); Multichannel Communications Equipment Operator (31M); Fixed Station Radio Repairman (32H); Avionics Mechanic (35K); Avionic Communications Equipment Repairman (35L); Avionic Navigation Equipment Repairman (35M); Avionic Equipment Maintenance Supervisor (35P); Field Radio Repairman (31E) Tactical Electronic Maintenance Chief (31W); Field General COMSEC Repairman (31S); Field Systems COMSEC Repairman (31T); Tactical COMSEC Maintenance Chief (31U); Fixed Ciphony Repairman (32F); Fixed Cryptographic Equipment Repairman (32G)

Navy:	Electronics Technician (Communication-ETN); Aviation Electronics Technician (AT); Shore Communications Equipment Maintenance Technicians (ET-1402 thru 1409); Sea Communications Equipment Maintenance Technicians (ET-1421 thru 1428); Communication Security Devices Equipment Technician (ET-1431 thru 1449); Fleet Satellite Communications Systems Maintenance Technicians (ET-1462 thru 1464); Navigation Equipment Maintenance Technicians (ET-1471 thru 1478); Cryptographic Machines Repairman (RM-2314); Radio Equipment (Submarine) Maintenance Man (RM-2333)
Air Force:	Radio Relay Equipment Repairman (30450); Ground Radio Communications Equipment Repairman (30454); Flight Facilities Equipment Repairman (30451); Avionic Communications Specialist (32850); Avionic Navigations System Specialist (32851)
Marine Corps:	Microwave Equipment Repairman (2831); Satellite Terminal Repairman (2833); Ground Radio Repairman (2841); Radio Technician (2861); Satellite Terminal Technician (2864); Aviation Radio Repairman (2851); Aviation Radio Technician (2866); Air Traffic Control Communications Technician (5954); Air Traffic Control Communications Repairman (5958); Military Affiliate Radio System Radio Operator (8981)
Coast Guard:	Electronics Technician (ET); Aviation Electronics Technician (AT)

4. Composite Service Job Statement: Tests and repairs radio transmitting and receiving equipment in accordance with diagrams and manufacturer's specifications, using hand tools and electrical measuring instruments. Examines equipment for damaged components and loose or broken connections and wires. Replaces defective components and parts, such as tubes, condensers, transformers, resistors and generators, using hand tools. Solders and tightens loose connections and cleans and lubricates motor generators. Tests equipment for factors, such as power output, frequency power, losses of antennas and transmission lines, noise level, audio quality and dial calibration, using oscilloscopes, radio frequency and watt meters, ammeters, voltmeters, and tube testers. Tests batteries with hydrometer and ammeter and charges batteries by connecting them to charging machines. Inserts plugs into receptacles and bolts and screws leads to terminals to connect radios and equipment to power source, using wrenches and screwdrivers. Adjusts receivers for sensitivity and transmitters for maximum output. May install, test, adjust, modify and repair intercommunication systems.

5. Desirable Qualifications Summary:

a. Academic Background:	Courses in electricity, electronics, radio, physics and algebra.
b. Physical:	Normal color discrimination required. Normal hearing mandatory (Coast Guard).
c. Specific:	May require appropriate security clearance. High degree of learning ability. Experience in amateur radio, mechanical and/or electrical trades.

6. Related Service Jobs:

Navy:	Sonar Technician (ST); Radioman (RM); Electronics Technician (Radar-ETR); Aviation Antisubmarine Warfare Technician (AX)
Coast Guard:	Sonar Technician (ST); Radioman (RM)

ASSEMBLY, INSTALLATION AND REPAIR OF LIGHTING EQUIPMENT

1. USOE Cluster: Construction
2. Civilian Title: Electrician (824.281)
3. Military Titles: (Electrician)
   Army: Electrician (51R); Field Illumination Crewman (17E)
   Navy: Construction Electrician (CE); Electrician's Mate (EH); Minesweeping Electrician (EM-4666); UNREP Electrical Component Maintenanceman (EM-4667-4669); Plotting Systems Technician (IC-4771-4775); Automated Propulsion Control System Maintenance Technician (IC-4701); Auxiliary Electrician (IC-4731); Submarine Steering and Diving Control Technician (IC-4737)
   Air Force: Electrician (54250)
   Marine Corps: Electrician (1141)
   Coast Guard: Electrician's Mate (EM)
4. Composite Service Job Statement: Installs, inspects, maintains, and repairs low and high voltage electrical systems. Maintains and repairs power and lighting circuits, electrical fixtures, motors, generators, distribution switchboards, and other electrical equipment; tests for short circuits, grounds or other malfunctions, and repairs and rebuilds electrical equipment in an electrical shop.
5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop, practical mathematics, and physics.
   b. Physical: Normal color discrimination.
   c. Specific: None.
6. Related Service Jobs:
   Army: Utilities Foreman (51P)
   Navy: Interior Communications Electrician (IC); Aviation Electrician's Mate (AE)
   Air Force: Aircraft Electrical Repairman (42350); Electric Power Line Specialist (54251)
   Coast Guard: Aviation Electrician's Mate (AE)

ASSEMBLY, INSTALLATION AND REPAIR OF TRANSPORTATION AND MATERIALS HANDLING EQUIPMENT

1. USOE Cluster: Transportation
2. Civilian Title: Electrician, Airplane (825.281)
3. Military Titles: (Aircraft Electrician)
   Army: Aircraft Electrician (68F)
   Navy: Aviation Electrician's Mate (AE); Aviation Electrical Systems Technicians (AE-7103 thru 7105, 7108-7109, 7112, 7114 thru 7117, 7123 thru 7125, 7128, 7132 thru 7138, 7144, 7149, 7152 thru 7153, 7166, 7171 thru 7174, 7181 thru 7182, 7196)
   Air Force: Aircraft Electrical Repairman (42350)
   Marine Corps: Aircraft Electrical Systems Technician (6632 through 6638); Aircraft Electrical Systems Technician, F-14A (6677)
   Coast Guard: Aviation Electrician's Mate (AE)

4. Composite Service Job Statement: Installs, inspects, troubleshoots, repairs, overhauls, and modifies aircraft electrical and electronic control systems, components and associated electrical test equipment. Inspects aircraft electrical and electronic control systems and components such as alternators, DC generators, inverters, voltage regulators, frequency and load controllers, control panels, anti-skid, nose-wheelsteering and starters. Replaces defective parts. Services and repairs batteries. Adjusts electrical devices such as voltage regulators and limit switches. Fabricates wiring assemblies. Disassembles components such as starters, generators, and retracting motors. Conducts tests, using electrical and electronic test equipment such as voltmeter and ohmmeter to isolate malfunctions. Adjusts, alines, and calibrates aircraft electrical systems using blueprints and technical publications. Checks installed and repaired electrical and electronic components to insure compliance with technical specifications.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, trigonometry, physics, and electric shop.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in aircraft and automotive electrical work.

6. Related Service Jobs:
   Army: Avionic Flight Control Equipment Repairman (35N)
   Navy: Interior Communications Electrician (IC); Electrician's Mate (EM); Construction Electrician (CE)

ASSEMBLY, INSTALLATION AND REPAIR OF TRANSPORTATION AND MATERIALS HANDLING EQUIPMENT

1. USOE Cluster: Transportation

2. Civilian Title: Electrician, Automotive (825.281)

3. Military Titles: (Automobile Electrician)
   Army: Fuel and Electrical Systems Repairman (63G); Power Generation Equipment Repairman (52D)
   Navy: Aviation Support Equipment Technician (Electrical) (ASE); Automotive Electrical Technician (CM-5802)
   Marine Corps: Fuel and Electrical Systems Repairman (3524); Aircraft Maintenance Ground Support Equipment Electrician (6077)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Inspects and repairs electrical systems in automobiles and/or mobile and self-propelled aviation support equipment, including generating, starting, lighting and ignition systems, electrical components and wiring in automobiles and auxiliary electrical power units used in servicing aircraft.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in practical mathematics, physics, automobile mechanics and machine shop.
   b. Physical: Normal color discrimination.
   c. Specific: Experience as a machinist or automobile mechanic.

6. Related Service Jobs:
   Army: Power Generation Equipment Operator/Mechanic (52B)

Navy: Construction Mechanic (CM); Electrician's Mate (EM); Construction Electrician's Mate (CE); Aviation Electrician's Mate (AE)

Air Force: Aerospace Ground Equipment Repairman (42153); Base Maintenance Equipment Repairman (47250); Special Vehicle Repairman (47251); General Purpose Vehicle Repairman (47350)

Coast Guard: Electrician's Mate (EM); Aviation Electrician's Mate (AE)

ASSEMBLY, INSTALLATION AND REPAIR OF TRANSPORTATION AND MATERIALS HANDLING EQUIPMENT

1. USOE Cluster: Transportation
2. Civilian Title: Electrician, Locomotive (825.281)
3. Military Titles: (Locomotive Electrician)
   Army: Diesel-Electric Locomotive Electrician (65F)
4. Composite Service Job Statement: Performs repairs on electrical portions of diesel-electric locomotives. Repairs electrical systems of diesel-electric locomotives and auxilliary equipment. Repairs or replaces defective components of generators, traction motors and auxillary motors. Restores commutator surfaces, rebands armatures, repacks armature bearing, babbitts or armature shafts. Also makes repairs to mechanical assemblies of diesel-electric locomotive engines.
5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Army: Electrician (51R)
   Navy: Electrician's Mate (EM)

FABRICATION, INSTALLATION AND REPAIR OF ELECTRICAL AND ELECTRONICS PRODUCTS

1. USOE Cluster: Manufacturing
2. Civilian Title: Electronics Mechanic (828.281)
3. Military Titles: (Electronics/Radar/Computer/Communications Mechanic)
   Army: Pershing Electronics Material Specialist (21G); Nike Track Radar Repairman (23N); Nike Highpower Radar Simulator Repairman (23U); Nike Maintenance Chief (23W); HAWK Missile Launcher Mechanic (24D); HAWK Fire Control Mechanic (24F); Improved HAWK Firing Section Mechanic (24C); Improved HAWK Fire Control Mechanic (24E); Improved HAWK Information Coordinating Central Mechanic (24G); HAWK Missile and Launcher Repairman (22K); HAWK Fire Control Repairman (23Q); HAWK Pulse Radar Repairman (23S); HAWK Continuous Wave Radar Repairman (23T); HAWK Maintenance Chief (23V); HAWK Continuous Wave Radar Mechanic (24B); Improved HAWK Fire Control Repairman (24H); Vulcan

Army: (Continued)

System Mechanic (24M); Electronic Warfare Equipment Repairman (26K); Tactical Microwave Systems Repairman (26L); Strategic Microwave Systems Repairman (26V); Lance Missile Systems Repairman (27D); Wire-Guided Missile System Repairman (27E); Chaparral/Vulcan Air Defense System Repairman (27F); REDEYE Missile Systems Repairman (27G); Shillelagh Missile System Repairman (27H); Pershing Communications Specialist (31D); Field Radio Repairman (31E); Teletypewriter Repairman (31J); Multichannel Communications Equipment Repairman (31L); Multichannel Communications Equipment Operator (31M); Field General COMSEC Repairman (31S); Field Systems COMSEC Repairman (31T); Fixed Ciphony Repairman (32F); Fixed Cryptographic Equipment Repairman (32G); Fixed Station Radio Repairman (32H); Intercept Receiving Systems Repairman (33C); Intercept Recording Systems Repairman (33D); ECM/DF Systems Repairman (33G); Intercept Systems Maintenance Supervisor (33Z); Special Electrical Devices Repairman (35E); Electronic Biomedical Equipment Repairman (35S); X-Ray Biomedical Equipment Repairman (35T); Sergeant Electrical Mechanical Repairman (46L); Improved HAWK Pulse Radar Repairman (24J); Improved HAWK Continuous Wave Radar Repairman (24K); Improved HAWK Maintenance Chief (24V); AN/TSQ-51 System Repairman (25K); Satellite Communications Ground Station Repairman (26Y); Ground Control Approach Radar Repairman (26D); Chaparral System Mechanic (24N); Avionic Flight Control Equipment Repairman (35N); Pershing Electronics Repairman (21L); Sergeant Firing Set Repairman (21R); Sergeant Missile Guidance Repairman (21S); Sergeant Maintenance Chief (21U); Sergeant Test Equipment Repairman (21T); Nike Test Equipment Repairman (22L); Nike-Hercules Fire Control Mechanic (24Q); Hercules Electronic Mechanic (24U); Radio Propagation Specialist (26P); Unattended Ground Sensor Specialist (26U); Anti-Ballistic Missile Maintenance Specialist (28M); Mobile ADCP Monitor Repairman (25G); Radar Data Processing Equipment Repairman (25H); Operations Central Repairman (25J); BIRDIE Repairman (25D); Fire Direction System Maintenance Chief (25Z); Land Combat Support Systems Test Specialist (27B); LCSS Missile Maintenance Chief (27Z); Defense Acquisition Radar Mechanic (24P); Weapons Support Radar Repairman (26B); Combat Area Surveillance Radar Repairman (26C); Air Defense Radar Repairman (26H); Airborne Surveillance Radar Repairman (26M); Surveillance Infrared Repairman (26N); Radar Maintenance Supervisor/Inspector (26W); Field Communications-Electronics Equipment Mechanic (31B); Fixed Plant Carrier Repairman (32E); Fixed Station Chief (32Z); Nuclear Weapons Electronics Specialist (35F); Avionics Mechanic (35K); Avionic Communications Equipment Repairman (35L); Avionic Navigation Equipment Repairman (35M); Avionic Radar Equipment Repairman (35R); Avionic Equipment Maintenance Supervisor (35P); Aircraft Fire Control Repairman (35J); ADPS Repairman (34D); NCR 500 Computer Repairman (34E); DSTE Repairman (34F); ADMSE Repairman (34H); UNIVAC 1004/1005, DCT-9000 System Repairman (34J); IBM 360 Repairman (34K); ADMS Peripheral Equipment (34L); SDS 920 Equipment Repairman (34M)

Navy:	Electronics Technician (Communication—ETN); Electronics Technician (Radar—ETR); Aviation Electronics Technician (AT); Data Systems Technician (DS); Electronics Warfare Technician (EW); Aviation Antisubmarine Warfare Technician (AX); Master Chief Avionics Technician (AV); Sonar Technician (Surface—STG); Sonar Technician (Submarine—STS); Tradevman (TD); Underwater Object Locator Repairman (ST-0406 & 0408); Navigation Equipment Maintenance Technicians (ET-1471 thru 1478); Special Application Electronic Maintenance Technicians (ET-1481 thru 1489); Basic Electronics Maintenanceman (ET-1501); Inertial Navigation System (SSBN) Technician (ET-3325); Ocean Survey Technicians (ET-SSBN) (3335-3336); Navigation Aids Technicians (FT-SSBN) (3337); Optical Landing System Technician (IC-4745); Aviation Antisubmarine Warfare Systems Technicians (AX-6522 thru 6586); Aircraft Electronics Systems Technicians (AT-6602 thru 6698); Radiac Technician (9597); NAVDAC Technician (3332); Central Navigation Computer Technician (3333); Aviation Fire Control Technician (AQ); Aviation Fire Control Equipment Technicians (AQ-7915 thru 7992); Sonar Equipment Technicians (ST-0409 thru 0498); Senior SSBN Navigation Department Technician (3303); Data Systems Technicians (DS-1614 thru 1669); Radar Technicians (ET-1502 thru 1524); Special Maintenance (TEAMS) Technician (ET-1561); Air Traffic Control Beacon System Technician (ET-1572, 1573); DAIR/GCA Maintenance Technician (ET-1574); Ground Controlled Approach Technician (ET-1577); Electronics Warfare Systems Technicians (EW-1701 thru 1717)
Air Force:	Outside Wire and Antenna Maintenance Repairman (36150); Missile Systems Cable Splicing Specialist (36153); Cable Splicing Specialist (36154); Telephone Switching Equipment Repairman, Electro/Mechanical (36251); Electronic Switching Systems Repairman (36252); Missile Control Communications Systems Repairman (36253); Telephone Equipment Installer Repairman (36254); Communications and Relay Center Equipment Repairman, Electro/Mechanical (36350); Weather Equipment Repairman (30250); Airborne Meteorological/Atmospheric Research Equipment Repairman (30251); Air Traffic Control Radar Repairman (30351); AC&W Radar Repairman (30352); Auto Tracking Radar Repairman (30353); Radio Relay Equipment Repairman (30450); Flight Facilities Equipment Repairman (30451); Ground Radio Communications Equipment Repairman (30354); Television Equipment Repairman (30455); Space Communications Systems Equipment Operator/Specialist (30456); Electronic Computer Systems Repairman (30554); Electronics Communications and Cryptographic Equipment Systems Repairman (30650); Electronic-Mechanical Communications and Cryptographic Equipment Systems Repirman (30651); Tele-Communications Systems Control Specialist/Attendant (30750); Space Systems Command and Control Equipment Operator/Specialist (30830); Missile Warning and Space Surveillance Sensor Repairman (30950); Missile Systems Analyst Specialist (31650); Missile Systems Maintenance Specialist (31651); Missile Electronics Equipment Specialist (31652); Instrumentation Mechanic (31750); Bomb-Navigation Systems Mechanic (32150); Weapon Control Systems Mechanic (32251); Defensive FCS Mechanic (32350);

Air Force: (Continued)	Precision Measuring Equipment Specialist (32450); Automatic Flight Control Systems Specialist (32550); Avionics Instrument Systems Specialist (32551); Avionics Aerospace Ground Equipment Specialist (32650); Integrated Avionics Component Specialist (32651); Integrated Avionics Systems Specialist (32652); Defensive FCS Operator (32750); Avionic Communications Specialist (32850); Avionic Navigation Systems Specialist (32851); Airborne Early Warning Radar Specialist (32852); Electronic Warfare Systems Specialist (32853); Avionic Inertial and Radar Navigation Systems Specialist (32854); Avionic Sensor Systems Specialist (32950); Flight Simulator Specialist (34250); Defense Systems Trainer Specialist (34251); Navigation/Bomb/Tactics Trainer Specialist (34350); Gunnery Trainer Specialist (34450); Missile Trainer Specialist (34550)
Marine Corps:	Electronic Switching Equipment Technician (2822); Technical Controller (2823); Fixed Ciphony Technician (2825); Digital Subscriber Terminal Technician (2826); Mobile Data Terminal Technician (2827); KW-26 Terminal Technician (2828); Mobile Communication Central Technician (2829); Microwave Equipment Repairman (2831); Satellite Terminal Repairman (2833); Ground Radio Repairman (2841); Aviation Radio Repairman (2851); Aviation Meteorological Equipment Repairman (2853); Radio Technician (2861) Satellite Terminal Technician (2864); Aviation Radio Technician (2866); Electronic Instrument Repairman (2871); Electronic Calibration Technician (2872); Mechanical Calibration Technician (2873); Meteorology Technician (2874); Radiac Instrument Technician (2877); Communication Security Equipment Technician (2881); KG-30 COMSEC Technician (2882); Calibration Chief (2894); Improved HAWK Fire Control Repairman (5921); Improved HAWK Information Coordination Central Repairman (5922); Improved HAWK Firing Section Repairman (5923); Improved HAWK Pulse Radar Technician (5924); Improved HAWK Continuous Wave Radar Technician (5925); Improved HAWK Automatic Fire Distribution and Engagement Simulator System Technician (5926); Improved HAWK Fire Control Technician (5927); Improved HAWK Missile System Maintenance Technician (5928); Improved HAWK Mechanical System Repairman (5929); Ground Radar Technician (5931); FADAC Radar Technician (5932); Artillery Electronics Technician (5933); Weapons Location Equipment Technician (5934); Counter Mortar Radar Technician (5935); Aviation Radar Repairman "A" (5941); Aviation Repairman "B" (5942); Aviation Fire Control Repairman (5943); Aviation Radar Repairman "C" (5945); Aviation Radar Technician (5948); Air Traffic Control Navigational Aids Technician (5952); Air Traffic Control Radar Technician (5953); Air Traffic Control Communications Technician (5954); Air Traffic Control Navigational Aids Repairman (5955); Marine Air Traffic Control Unit Radar Repairman (5956); Air Traffic Control Radar Repairman (5957); Air Traffic Control Communications Repairman (5958); Air Traffic Control Electronics Maintenance Chief (5959); Tactical Air Command Central Repairman (5962); Tactical Air Operations Central Repairman (5963); Tactical Data Communications Central Repairman (5964); Tactical Air Command Central Technician (5974); Tactical Data Communications

Marine Corps: (Continued)

Central Technician (5978); Tactical Air Operations Central Technician (5979); Digital Data System Technician, IBM 1401 (5981); Digital Data System Technician, UNIVAC 1500 System (5982); Electronics Maintenance Chief (5991); Ground Radar Maintenance Chief (5992); Aviation Ground Radar Maintenance Chief (5993); Tactical Data Systems Maintenance Chief (5994); Missile System Maintenance Chief (5995); Digital Data Systems Maintenance Chief (5996); Aircraft Communications/Navigation Systems Technician, Helicopter/OV-10 (6612); Aircraft Communications/Navigation Systems Technician, Transport/Utility (6613); Aircraft Communications/Navigation Systems Technician, A-4/TA-4/A-6/EA-6/F-8 (6614); Aircraft Communications/Navigation Systems Technician, AV-8 (6615); Aircraft Communications/Navigation Systems Technician, RF-4/F-4B/J (6616); Aircraft Communications Systems Technician, IMA (6617); Aircraft Navigation Systems Technician, IFF, IMA (6618); Aircraft Navigation Systems Technician, Radar, IMA (6619); Aircraft Navigation Systems Technician, TACAN, IMA (6620); Aircraft Cryptographic Systems Technician, IMA (6622); Aircraft Passive Electronic Countermeasures Systems Technician, EA-6 (6623); Aircraft Active Electronic Countermeasures Systems Technician, EA-6 (6624); Aircraft Radar Reconnaissance Systems Technician, RF-4 (6625); Aircraft Passive Electronic Countermeasures Systems Technician, IMA (6626); Aircraft Active Electronic Countermeasures Systems Technician, IMA (6627); Aircraft Deceptive Electronic Countermeasures Systems Technician, IMA (6628); Aircraft Radar/IR Reconnaissance Systems Technician, IMA (6629); Aircraft Electrical/Instrument Systems Technician, IMA (6638); Aircraft Flight Control and Air Data Computer Systems Technician, IMA (6639); Aviation Electronic Micro-Miniature Repair Technician (6640); Aircraft Weapon Systems Specialist, A-4/A-6E (6642); Aircraft Weapon Systems Specialist, A-6/EA-6A (6643); Aircraft Weapon Systems Specialist, AV-8 (6644); Aircraft Analog Display System SACE Technician, A-6/EA-6, IMA (6645); Aircraft Weapon Systems Technician, AV-8, IMA (6646); Aircraft Ballistics Computer Technician, A-6E, IMA (6647); Aircraft Radar Systems Technician, A-6E/SACE (6648); Aircraft Weapon Systems Technician, AWG-9, IMA (6649); VAST Operator Technician, IMA (6650); VAST Repair Technician, IMA (6651); Aircraft Search/Track Radar SACE Technician, A-6A, IMA (6652); Aircraft Ballistics Computer SACE Technician, A-6A, IMA (6653); Aircraft Inertial Navigation Systems SACE Technician, A-6, IMA (6654); Semi-Automatic Checkout Equipment (SACE) MATC/EMTC Systems Technician, IMA (6655); Aircraft Weapon Systems Specialist, F-4E (6656); Aircraft Weapon Systems Specialist, F-4J (6657); Aircraft Weapon Systems Technician, AERO-1A, IMA (6658); Aircraft Weapon Systems Technician, AWG-10, IMA (6659); Aerial Camera Systems Technician (6672); Aerial Camera, ADAS Systems Technician, IMA (6673); Imagery Interpretation Equipment Repair Technician (6674); Aircraft Communications/Navigation Systems Technician, F-14A (6676); Aircraft Weapon Systems Specialist, F-14A (6678); Aviation Photographic/Electronic Systems Chief (6679); Aviation Precision Measurement Equipment Calibration Technician (6682); Aviation Precision Meas-

Marine Corps: (Continued) urement Equipment Repair Technician (6683); Aviation Precision Measurement Equipment Chief (6689); Avionics Maintenance Chief (6691)

Coast Guard: Telephone Technician (TT); Electronics Techniican (ET); Fire Control Technician (FT); Aviation Electronics Technician (AT); Sonar Technician (ST)

4. Composite Service Job Statement: Repairs electronic equipment, such as computers, industrial controls, radar systems, communications-electronics systems equipment, telemetering and missile control systems, transmitters, antennas, and servomechanisms, following blueprints and manufacturers' specifications, using handtools and test instruments. Tests faulty equipment and applies knowledge of functional operation of electronic units and systems to diagnose cause of malfunctions. Tests electronic components and circuits to locate defects, using instruments such as oscilloscopes, signal generators, ammeters and voltmeters. Replaces defective components and wiring and adjusts mechanical parts, using handtools and soldering iron. Aligns, adjusts, and calibrates equipment according to specifications. Calibrates testing instruments. Maintains records of repairs, calibrations, and tests. May install equipment in industrial or military establishments and in aircraft and missiles. May operate equipment such as communication equipment and missile control systems in ground and flight tests.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electricity, electronics, physics, algebra, geometry, and trigonometry.
   b. Physical: Normal color discrimination. Normal hearing mandatory (Coast Guard).
   c. Specific: May require security clearance. Above average learning ability. Experience or technical training in electronics/electricity.

6. Related Service Jobs:
   Marine Corps: Electrical Equipment Repairman (1142)

INSTALLATION AND REPAIR OF ELECTRICAL PRODUCTS

1. USOE Cluster: Manufacturing

2. Civilian Title: Sound Technician (829.281)

3. Military Titles: (TV Sound Technician)
   Navy: Monochrome TV Technician (9574)

4. Composite Service Job Statement: Installs, maintains and services sound and intercommunication systems, multiple antenna systems, closed circuit television systems and associated apparatus. Installs coaxial cable and interconnecting cable and wiring. Tests installation to verify proper functioning. Tests, trouble-shoots, and services equipment. May install high-fidelity components or systems for playing musical recordings.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in electrical, electronics, mathematics, algebra and physics.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Army: Television Equipment Repairman (26T); Audio Specialist (84D)
   Navy: Interior Communications Electrician (IC)
   Air Force: Television Equipment Repairman (30455)
   Coast Guard: Electronics Technician (ET); Telephone Technician (TT)

INSTALLATION AND REPAIR OF ELECTRICAL PRODUCTS

1. USOE Cluster: Manufacturing
2. Civilian Title: Cable Splicer (829.381)
3. Military Titles: (Cable Splicer)
   Army: Cable Splicer (36E); Electrician (51R)
   Navy: Cable Splicing Technician (CE-5644)
   Air Force: Cable Splicing Specialist (36154); Missile Systems Cable Splicing Specialist (36153)
   Marine Corps: Cable Systems Technician (2813)
   Coast Guard: Telephone Technician (TT)

4. Composite Service Job Statement: Splices overhead, underground, or submarine multiple-conductor cables used in telephone and telegraph communication and electric-power transmission systems. Tests, troubleshoots and repairs pressurized and nonpressurized multiconductor telephone cable. Locates and installs cable terminals using hand tools, test sets, cable splicer auxiliary equipment and common construction tools. May work on marine craft when splicing underwater cables.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, physics, and electricity.
   b. Physical: Normal color discrimination. Normal hearing (Coast Guard).
   c. Specific: Experience in construction trades or as a telephone lineman.

6. Related Service Jobs:
   Navy: Construction Electrician (CE)
   Coast Guard: Electrician's Mate (EM)

CONSTRUCTION AND MAINTENANCE PAINTERS AND RELATED

1. USOE Cluster: Construction
2. Civilian Title: Painter, Rough (840.884)
3. Military Titles: (Painter)
   Army: Construction and Utilities Worker (51A)
   Navy: Builder (BU)
   Air Force: Protective Coater (55254)
   Coast Guard: Boatswain's Mate (BM); Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Applies coats of paint, varnish, stains, enamel or lacquer to decorate and protect interior or exterior surfaces, trimmings and fixtures of buildings and other structures. Smooths surfaces, using sandpaper, brushes or steel wool, and removes old paint from surfaces, using paint remover, scraper, wire brush or blowtorch to prepare surfaces for painting. Fills nail holes, cracks, and joints with putty, plaster or other filler. Selects premixed paints or prepares paint to match specified colors by mixing required portions of pigment, oil and thinning and drying substances. Paints surfaces, using brushes, spray gun or paint rollers. Simulates wood grain, marble, brick or tile effects. Creates special effects by applying paint with cloth, brush, sponge or fingers.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in carpentry and shop mathematics.
   b. Physical: Normal color discrimination mandatory (Air Force/Coast Guard).
   c. Specific: Experience with hand or power tools.

6. Related Service Jobs:
   Navy: Aviation Structural Mechanic (AM); Boatswain's Mate (BM)
   Air Force: Corrosion Control Specialist (53550)
   Marine Corps: Combat Engineer (1371)

CEMENT AND CONCRETE FINISHING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Cement Mason (844.884)

3. Military Titles: (Cement Mason)
   Army: Mason (51D)
   Navy: Builder (BU)
   Air Force: Masonry Specialist (55253)
   Marine Corps: Combat Engineer (1371)
   Coast Guard: Damage Controlman (DC-02)

4. Composite Service Job Statement: Builds and repairs walls, drains, bridge supports, roadways, chimneys and other masonry structures, using floats, trowels and other handtools. Smooths and finishes surfaces of poured concrete floors, walls, sidewalks, or curbs. May mix cement, using hoe or concrete-mixing machine. May plaster exterior or interior of buildings.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop mathematics and mechanical drawing.
   b. Physical: Above average strength and endurance.
   c. Specific: Experience or apprenticeship as a stonemason.

6. Related Service Jobs:
   Army: Combat Engineer (12B)

TRANSPORTATION EQUIPMENT PAINTERS AND RELATED

1. USOE Cluster: Transportation

2. Civilian Title: Painter, Aircraft (845.781)

3. Military Titles: (Aircraft Painter)
   Army: Airframe Repairman (68G)
   Navy: Aviation Structural Mechanic (Structures) (AMS)
   Air Force: Corrosion Control Specialist (53550)
   Coast Guard: Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: May perform any one or a combination of: Identifies corrosion and applies appropriate preservative treatment to metal surfaces of missile, aircraft and support systems equipment to meet requirements for preservation, eliminate deterioration and effect corrosion control. Tests metal to determine type corrosion present by examination with magnifying equipment, and chemical and mechanical checks. Determines metal identity by subjecting to spark acid, magnetic, alkaline, hardness, heat and fracture tests. Removes corrosion by mechanical and chemical procedures to include use of portable powered (electric and pneumatic) sanders, buffers, brushes, sand blasters, vacuum blasters, vacuum cleaners, scrapers and grinders; hand tools such as, scrapers, wire brushes, sand paper, acids, caustics, solvents and other agents. Treats metal with chemical procedures to protect metal from oxidation and performs functions such as pickling to prepare metal for good bonding with primer coat of protective materials. Applies protective coatings using conventional spray equipment, brushes, pressurized paint cans, and special applicators. Operates and maintains equipment. Uses, blends, stores and disposes of acids, caustics, alcohols, solvents, cleaners, primers and surface coatings.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry and physics. Shopwork courses in metal and wood.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in automotive body work.

6. Related Service Jobs:
   Air Force: Protective Coating Specialist (55254)
   Marine Corps: Aircraft Structures Mechanic (6042)

PAINTING, PLASTERING, WATERPROOFING, CEMENTING AND RELATED

1. USOE Cluster: Transportation
2. Civilian Title: Airplane Coverer (849.781)
3. Military Titles: (Fabric and Rubber Products Specialist)
   Air Force: Fabric and Rubber Products Specialist (58250)
   Coast Guard: Aviation Structural Mechanic (AM)

4. Composite Service Job Statement: Fabricates, installs and sprays cloth airplane surface coverings. Marks dimensions of surface on cloth parts, using chalk and templates. Cuts cloth to size, using scissors or cutting machine. Operates sewing machine to stitch cloth to form envelope that fits structure to be covered and reinforces envelope with cloth tape. Fastens fabric parts to structure, using cement, needle and thread, or metal strips and screws. Sprays covering with water to smooth it. Applies diluted dope to prime and tighten fabric using hand brush. Brushes on clear and silver dope to strengthen and preserve fabric. Applies pigmented dope with brush or spray gun to color and finish fabric. May make patterns and templates.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Army: Airframe Repairman (68G)
   Navy: Aviation Structural Mechanic (AM); Aircrew Survival Equipmentman (PR)
   Air Force: Parachute Rigger (58150)
   Marine Corps: Aircraft Structures Mechanic (6042)

EXCAVATING, GRADING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Bulldozer Operator I (850.883)

3. Military Titles: (Bulldozer Operator)
   - Army: Wheeled Tractor Operator (62L); Crawler Tractor Operator (62E); Combat Engineer Tracked Vehicle Crewman (12F)
   - Navy: Equipment Operator (EO)
   - Air Force: Construction Equipment Operator (55151)
   - Marine Corps: Engineer Equipment Operator (1345)
   - Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Operates tractor equipped with concave blade attached across front to gouge out, level and distribute earth and to clear trees and rocks from land for construction projects. Fastens attachments to tractor with clevis or wedge-pin hitches. Connects hydraulic hoses, belts, mechanical linkage, or power take-off shaft to tractor to provide power to raise, lower or tilt attachment. Moves levers to control tool bars, carriers, and disks. Moves levers and pushes pedals to maneuver tractor and raise, lower and tilt attachment. Estimates depth of cut by feel of lever and stalling action of engine. Drives bulldozer in successive passes over terrain to raise or lower terrain to attain grade specifications. May grease, oil, and repair tractor.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in automobile and electrical shop.
   - b. Physical: None.
   - c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   - Army: Combat Engineer (12B)

EXCAVATING, GRADING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Power-Shovel Operator (850.883)

3. Military Titles: (Power Shovel Operator)
   - Army: Crane Operator (62F)
   - Navy: Equipment Operator (EO)
   - Air Force: Construction Equipment Operator (55151)
   - Marine Corps: Engineer Equipment Operator (1345)
   - Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Operates power driven machine equipped with movable shovel to excavate dirt, rock, gravel and other materials. Pushes levers and pedals to move machine, to lower and crowd dipper into material, and to lift swing and dump contents of dipper into truck, car or onto conveyer or stockpile.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs: None.

EXCAVATING, GRADING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Rock Drill Operator I (850.883)

3. Military Titles: (Rock Drill Operator)
   Army: Quarryman (62G)
   Navy: Equipment Operator (EO)
   Air Force: Construction Equipment Operator (55151)
   Marine Corps: Rock Quarryman (1346)

4. Composite Service Job Statement: Operates portable wagon drill or drives tractor-mounted rock drilling machines to drill holes through hard materials. Places timbers under wheels or manipulates lever to set outrigger jacks to level machine, verifying with spirit level. Inserts drill steel or rock bit into chuck. Moves levers to start, stop and control drilling speed of machine. Drills holes to depth specified by blaster, watching depth gauge marked on drill stem.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   Army: General Construction Machine Operator (62J)
   Air Force: Pavements Maintenance Specialist (55151)
   Coast Guard: Machinery Technician (MK) (QC: B8); Damage Controlman (DC) (QC: B8

DRAINAGE AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Motor Grader Operator (851.883)

3. Military Titles: (Grader Operator)
   Army: Grader Operator (62K)
   Navy: Equipment Operator (EO)
   Air Force: Construction Equipment Operator (55151)
   Marine Corps: Engineer Equipment Operator (1345)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Operates construction grader and attachments to level and slope ditches. Grades earth on roads, railroad beds, airfield runways, building sites and related areas. Performs light stripping of topsoil, excavation, embanking and spreading. Performs after operation maintenance services to grader.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automobile repair.
6. Related Service Jobs: None.

CONCRETE PAVING

1. USOE Cluster: Construction
2. Civilian Title: Concrete-Paving Machine Operator (852.883)
3. Military Titles: (Concrete Paving Machine Operator)
   Army: Concrete Paving Equipment Operator (62H)
   Navy: Equipment Operator (EO)
   Air Force: Construction Equipment Operator (55151)

4. Composite Service Job Statement: Operates concrete paving machine to spread and smooth freshly poured concrete surfaces for concrete roads and landing fields: Starts machine, engages clutch, and shifts gears to control machine's movement along rails on concrete forms. Moves levers and turns handwheels to lower attachment that spreads wet concrete within forms. Observes surface of concrete to point out low spots for workers to add concrete. Operates machine with attachments to successively vibrate, screed, strike-off (remove excess from), and float surface of concrete, to spray on curing compound, and cut expansion joints. When cutting expansion joints, places strips of material, such as cork, asphalt, or steel, in joints, or places roll of expansion-joint material on machine that automatically inserts material into joints. Operates concrete mixing and surfacing machinery.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.
6. Related Service Jobs: None.

ASPHALT PAVING

1. USOE Cluster: Construction
2. Civilian Title: Asphalt-Paving-Machine Operator (853.883)
3. Military Titles: (Asphalt Paving Machine Operator)
   Army: Asphalt Equipment Operator (62D)
   Navy: Asphalt Paving and Plant Operating Technician (EO-5712)
   Air Force: Construction Equipment Operator (55151)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Operates self-powered machines and accessories used in asphalt heating and dedrumming equipment, asphalt producing and surfacing operations. Sets controls of equipment for optimum efficiency. Inspects product at various stages to determine adequacy according to specifications.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   Navy: Equipment Operator (EO).
   Air Force: Pavements Maintenance Specialist (55150)

EXCAVATING, GRADING, PAVING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Grading Supervisor (859.131)

3. Military Titles: (Grading Supervisor)
   Army: Construction Machine Supervisor (62N)
   Navy: Grade Foreman (EO-5711)
   Air Force: Pavements and Construction Equipment Superintendent (55191)
   Marine Corps: Engineer Equipment Chief (1349)

4. Composite Service Job Statement: Supervises personnel and controls equipment engaged in excavating, filling and grading areas to specifications. Prepares and works from mass diagrams and construction schedules. Computes equipment and material estimates from drawings, sketches and specifications. Uses leveling instruments to set and verify grade stakes. Supervises soil stabilization operations.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive work.

6. Related Service Jobs:
   Navy: Equipment Operator (EO)
   Coast Guard: Damage Controlman (QC: 03)

EXCAVATING, GRADING, PAVING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Pile-Driving Supervisor (859.131)

3. Military Titles: (Pile Driving Supervisor)
   Navy: Heavy Construction Technician (BU-5906)
   Coast Guard: Damage Controlman (DC-01)

4. Composite Service Job Statement: Performs duties related to construction of timber structures, cofferdams, seawalls, jetties and breakwaters. Directs pile driving operations utilizing all types of piles and pile driving rigs. Prepares simple designs, sketches and specifications. Estimates materials, equipment, and manpower requirements. Supervises and trains heavy construction crews.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in automobile and electrical shop.
   - b. Physical: None.
   - c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   - Navy: Builder (BU); Equipment Operator (EO)
   - Air Force: Pavements and Construction Superintendent (55191)

EXCAVATING, GRADING, PAVING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Blaster (859.281)

3. Military Titles: (Blaster)
   - Army: Quarryman (62G); Combat Engineer (12B)
   - Navy: Blaster (EO-5708)
   - Air Force: Pavements Maintenance Specialist (55150)
   - Marine Corps: Rock Quarryman (1346); Combat Engineer (1371)

4. Composite Service Job Statement: Assembles, plants, and detonates charges of explosives to loosen earth, rock, stumps, or to demolish structures to facilitate removal. Assembles primer and booster and places it with main charge in hole or near object to be blasted. May operate jackhammer, hand drill, or electric drill to bore holes for charges.

5. Desirable Qualifications Summary:
   - a. Academic Background: Courses in electrical shop.
   - b. Physical: Normal color discrimination.
   - c. Specific: High degree of self-reliance and calmness under stress.

6. Related Service Jobs:
   - Navy: Equipment Operator (EO)
   - Coast Guard: Gunner's Mate (GM)

EXCAVATING, GRADING, PAVING AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Driller, Water Well (859.782)

3. Military Titles: (Well Driller)
   - Army: General Construction Machine Operator (62J)
   - Navy: Water Well Drilling Technician (EO-5707)
   - Marine Corps: Well Driller (1122)

4. Composite Service Job Statement: Sets up and operates drilling rig to drill wells supplying water. Bores test holes at designated locations to obtain earth samples used to determine likelihood of underground water. Examines and feels sample to classify type of soil and estimate water content. May supervise activities of workers engaged in installing subterranean pipes and filtration equipment. May measure depth of water in test holes to compute level of water table.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   Navy: Equipment Operator (EO)
   Air Force: Construction Equipment Operator (55151)

EXCAVATING, GRADING, PAVING AND RELATED

1. USOE Cluster: Construction
2. Civilian Title: Operating Engineer (859.883)
3. Military Titles: (Operating Engineer)
   Army: General Construction Machine Operator (62J)
   Navy: Equipment Operator (EO)
   Air Force: Construction Equipment Operator (55151)
   Marine Corps: Engineer Equipment Operator (1345)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Operates several types of power construction equipment such as, compressor, pumper, hoists, cranes, shovels, tractors, scrapers, motor graders, power rollers, well-drilling equipment, earth augers, rotary tillers or entrenching machines to excavate and grade earth, erect structural and reinforcing steel, and pour concrete to achieve compaction within design specification.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   Air Force: Pavements Maintenance Specialist (55150)

EXCAVATING, GRADING, PAVING AND RELATED

1. USOE Cluster: Construction
2. Civilian Title: Crusher Operator (859.885)
3. Military Titles: (Crusher Operator)
   Army: Quarryman (62G)
   Navy: Crushing and Screening Plant Technician (EO-5709)

Air Force: Pavement Maintenance Specialist (55150)
Marine Corps: Engineer Equipment Operator (1345); Rock Quarryman (1346)

4. Composite Service Job Statement: Tends machines that crush rocks, cinders, or other materials: Feeds material to be crushed into machine by hand, shovel, or pneumatic hoist or signals driver of vehicle to dump material. Observes flow of material through crusher to prevent block-ups and stops crusher when mechanism becomes clogged. Patches torn sifting screens with wire. May oil, grease, and repair crushing and conveying equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electrical shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
Navy: Equipment Operator (EO)
Coast Guard: Equipment Operator (QC: B8)

CARPENTERS AND RELATED

1. USOE Cluster: Construction
2. Civilian Title: Carpenter (860.381)
3 Military Titles: (Carpenter)
Army: Carpenter (51B)
Navy: Builder (BU)
Air Force: Carpentry Specialist (55250)
Marine Corps: Combat Engineer (1371)
Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Constructs, maintains, and repairs buildings, structures, models, mock-ups, and patterns; and assembles prefabricated structures. Examines blueprints, sketches, drawings, and plans for new construction. Coordinates carpentry work with plumbing, heating, and electrical work. Inspects finished work for defective workmanship.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in carpentry and practical mathematics.
   b. Physical: None.
   c. Specific: Experience in hand and power tools.

6. Related Service Jobs:
Navy: Hull Maintenance Technician (HT)

BRICK AND STONE MASONS AND TILE SETTERS

1. USOE Cluster: Construction
2. Civilian Title: Bricklayer (861.381)

3. Military Titles: (Bricklayer)
Army: Mason (51D)
Navy: Masonry Technician (BU-5902)
Air Force: Masonry Specialist (55253)
Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Lays building materials, such as brick, structural tile, and concrete cinder, glass, gypsum, and terra cotta block, using trowel, brickhammer and other hand tools, to construct or repair walls, partitions, arches, sewers, and other structures. Utilizes various types of cement and batching formulas for different mortar and cement mixes. Positions brick, hollow tile, building blocks, or stones. Keeps masonry tools in serviceable condition.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in practical mathematics, mechanical drawing and carpentry.
   b. Physical: None.
   c. Specific: Experience working with brick, cinder blocks and building tile.

6. Related Service Jobs:
Navy: Builder (BU)
Marine Corps: Combat Engineer (1371)

PLUMBERS, GAS FITTERS, STEAM FITTERS, AND RELATED

1. USOE Cluster: Construction

2. Civilian Title: Plumber (862.381)

3. Military Titles: (Plumber)
Army: Plumber (51K)
Navy: Utilitiesman (UT); Hull Maintenance Technician (HT)
Air Force: Plumbing Specialist (55255)
Marine Corps: Plumbing and Water Supply Man (1121)
Coast Guard: Damage Controlman (DC); Machinery Technician (MK)

4. Composite Service Job Statement: Installs and repairs pipe systems and fixtures for water, hot air, gas, steam, petroleum, compressed air and waste disposal systems using plumbing and pipefitting tools and equipment. Connects pipe sections with appropriate fittings by welding or packing with oakum and lead wool or hot lead. Conducts inspections of plumbing facilities.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in machine shop.
   b. Physical: None.
   c. Specific: School or apprentice training in plumbing and related fields.

6. Related Service Jobs:
Army: Pipeline Specialist (51F)
Air Force: Aircraft Environmental Systems Repairman (42251); Liquid Fuels System Maintenance Specialist (54650)

MISCELLANEOUS CONSTRUCTION

1. USOE Cluster: Construction
2. Civilian Title: Concreting Supervisor (869.131)
3. Military Titles: (Concrete Supervisor)
   Navy: Concrete Technician (BU-5901)
   Air Force: Pavements Maintenance Technician (55170); Structural Technician (55270)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Supervises and coordinates activities of work crews engaged in preparing and applying concrete for fabricating, covering, and reinforcing structures including buildings, bridges, highways, and dams. Oversees workers who place forms for molding concrete, install reinforcing steel, and convey, pour, finish and cure concrete. Inspects bracing and shoring of concrete forms to insure their stability before and during pouring. Examines concrete after forms are stripped, and gives instruction to workers to repair defects such as roughness and honeycombed appearance.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in practical mathematics.
   b. Physical: None.
   c. Specific: Building trades experience.
6. Related Service Jobs:
   Army: Construction Foreman (51H)
   Navy: Builder (BU)
   Marine Corps: Engineer Operations Chief (1379)

MISCELLANEOUS CONSTRUCTION

1. USOE Cluster: Construction
2. Civilian Title: Track-Laying Supervisor (869.134)
3. Military Titles: (Track Laying Supervisor)
   Army: Railway Section Foreman (65G)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in repair and replacement of rails, ties, frogs and other activities to maintain assigned sections of railway right-of-way. Determines need for construction machinery and arranges for movement to repair site. Coordinates repair work with other repair units. Gages tracks, computes proper tie spacing and checks degree of elevation and curvature of tracks undergoing repairs.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Army: Railway Maintenance and Operations Apprentice (65A)
   Air Force: Pavements Maintenance Technician (55170)

MISCELLANEOUS CONSTRUCTION

1. USOE Cluster: Construction

2. Civilian Title: Furnace Installer-and-Repairer, Hot Air (869.281)

3. Military Titles: (Heating Plant Repairer)
   Army: Heating and Ventilating Specialist (51J)
   Navy: Utilitiesman (UT)
   Air Force: Heating Systems Specialist (54750)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Installs, maintains, repairs and operates heating plants, systems, and equipment in accordance with diagrams and other specifications using handtools and pipe-threading tools. Assembles and positions heating units in accordance with diagrams using drills, punches, snips and other handtools. Cuts holes in floors and walls to form air-duct outlets. Installs airducts, smokepipes, blowers, and stokers, following blueprints of building and using handtools. Installs fuel pipes using dies, pipecutters, and pipe wrenches. Wraps insulating asbestos around airducts. Connects and adjusts timers and thermostats. Inspects inoperative heating units to locate causes of trouble. Disassembles heating unit and replaces or repairs defective parts using handtools. Cuts, bends, and crimps sheetmetal to repair furnace and stove casing and pipes using crimpers, filers, snips, handbrakes, and sheetmetal hammers. Reassembles and starts heating unit to test its operation.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in metal working, practical mathematics and machine shop.
   b. Physical: None.
   c. Specific: Experience in stationary steam or heating exchanges.

6. Related Service Jobs:
   Navy: Hull Maintenance Technician (HT)
   Air Force: Refrigeration and Air Conditioning Specialist (54550)
   Coast Guard: Damage Controlman (DC)

MISCELLANEOUS CONSTRUCTION

1. USOE Cluster: Construction

2. Civilian Title: Construction Worker II (869.887)

3. Military Titles: Construction Worker
   Army: Construction and Utilities Worker (51A); Combat Engineer (12B)
   Air Force: Pavements Maintenance Specialist (55150)

4. Composite Service Job Statement: Performs any combination of the following duties concerned with erecting, repairing, and wrecking buildings and bridges; inspecting, maintaining and repairing railroad bed and tracks. Loads, unloads, and moves building materials onto and from trucks. Moves materials between work areas. Mixes, pours, and spreads concrete, asphalt, gravel and other materials using hand tools. Digs ditches and excavates for foundations using pick and shovel.

5. Desirable Qualifications Summary:
   a. Academic Background: None.

b. Physical: None.
c. , Specific: None.

6. Related Service Jobs: None.

STRUCTURAL MAINTENANCE

1. USOE Cluster: Construction
2. Civilian Title: Dock Hand (891.884)
3. Military Titles: (Dockmaster)
   Navy: Floating Drydock Dockmaster (9523); Floating Drydock Ballast Controller (9524)

4. Composite Service Job Statement: Assists in preparing for and docking of vessels in floating drydocks. Checks docking plans of vessels to be docked; lays out bottom curves of vessels to be docked; supervises cutting of blocks, rigging of centering chains and tackles, and setting up of shores. Ensures list and trim of vessels to be docked. Assists in hawing in and centering of vessels. Controls list and trim of drydock by actuating remotely operated ballasting valves and dock dewatering pumps and/or directs action of pump room personnel in operating manually controlled ballasting valves and dewatering pumps.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry and physics.
   b. Physical: Manual dexterity.
   c. Specific: None
6. Related Service Jobs: None

MISCELLANEOUS STRUCTURAL WORK

1. USOE Cluster: Construction
2. Civilian Title: Utilities-and-Maintenance Supervisor (899.131)
3. Military Titles: (Utilities and Maintenance Supervisor)
   Army: Utilities Foreman (51P)
   Navy: Utilitiesman (UT)
   Marine Corps: Utilities Chief (1169)
   Coast Guard: Damage Controlman (DC)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in maintaining building utility systems such as electrical wiring and control systems, heating, ventilating, water supply, steam generating and related pipe systems. May compile reports of cost of completed work. May supervise workers engaged in maintaining building and grounds.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in practical mathematics.
   b. Physical: None.
   c. Specific: School or apprentice training in plumbing and related fields.

6. Related Service Jobs:
   Army: Duty Foreman (57G)
   Air Force: Programs and Work Control Technician (55570)
   Coast Guard: Boatswain's Mate (BM)

MISCELLANEOUS STRUCTURAL WORK

1. USOE Cluster: Construction
2. Civilian Title: Supervisor, Labor Gang (899.133)
3. Military Titles: (Labor Supervisor)
   Army: Duty Foreman (57G)
   Air Force: Pavements Maintenance Technician (55170); Construction Equipment Technician (55171)
   Coast Guard: Boatswain Mate (BM)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in cleaning and maintenance of buildings and grounds and in minor repair of roads, firing ranges, loading, unloading and uncrating equipment. Inspects work areas to determine type of work required and materials and equipment to be used. Assigns personnel from one work detail to another to meet varying work loads and schedules. May operate equipment such as bulldozers and graders, and train workers in equipment operation.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Navy: Builder (BU); Steelworker (SW); Boatswain's Mate (BM)

MISCELLANEOUS STRUCTURAL WORK

1. USOE Cluster: Construction
2. Civilian Title: Diver (899.281)
3. Military Titles: (Diver)
   Army: Diver (00B)
   Navy: Advanced Underwater Construction Technician (BU-5931); Diver (5311 thru 5346); Basic Underwater Construction Technician (BU-5932)
   Coast Guard: Diver (QC: E-4, E-5, E-6, E-7)

4. Composite Service Job Statement: Works underwater at various depths with use of surface-supplied airline equipment or self-contained underwater breathing apparatus. Inspects, repairs and cleans parts and components of diving equipment. Swims underwater or descends to an underwater work area, examines material or object to be worked upon and determines tools, material, and equipment required to accomplish assigned mission. Performs underwater repair of vessels, landing craft and amphibians by calking seams, patching rips and holes in hulls, clearing fouled propellers, straightening, tightening, and adjusting rudders, and fitting

and securing prefabricated parts in position. Performs underwater reconnaissance of breakers, beach approaches, riverbeds, and harbors. Collects and reports information and data on hydrographic conditions, obstacles, beach and riverbank characteristics, beach and river bottoms, and terrain and routes for use in river crossings and beach operations. Directs or assists in construction of underwater sections of piers, pipelines, and other harbor and marine facilities, and rigging of submerged objects for surfacing. Detonates or directs detonation of explosives to expedite clearing of rivers, beaches, channels and harbors. Maintains diving log. May operate decompression chamber.

5. Desirable Qualifications Summary:

a. Academic Background:	Courses in physics and electrical shop.
b. Physical:	None.
c. Specific:	High degree of self-reliance and calmness under stress.

6. Related Service Jobs:

Air Force:	Pararescue/Recovery Specialist (92350)

TAB 9

MISCELLANEOUS OCCUPATIONS

This category includes occupations concerned with transportation services; packaging and warehousing; utilities; amusement, recreation, and motion picture services; mining and logging; graphic arts; and various miscellaneous activities.

DUMP-TRUCK DRIVERS

1. USOE Cluster: Transportation

2. Civilian Title: Dump-Truck Driver (902.883)

3. Military Titles: (Dump-Truck Driver)
   Army: Motor Transport Operator (64C)
   Navy: Equipment Operator (EO)
   Air Force: Construction Equipment Operator (55151)
   Marine Corps: Heavy Vehicle Operator (3531)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Drives motor truck equipped with dump body to transport and dump loose materials such as sand, gravel, crushed rock, coal or bituminous paving materials. Pulls levers or turns crank to tilt body and dump contents. Moves hand and foot controls to jerk truck forward and backward to loosen and dump material adhering to body. May load truck by hand or by operating mechanical loader.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in automotive shop.
   b. Physical: None.
   c. Specific: Experience in principles of earthwork, road construction, grading and filling.

6. Related Service Jobs:
   Air Force: Vehicle Operator/Dispatcher (60350)

TRUCK DRIVERS, INFLAMMABLES

1. USOE Cluster: Transportation

2. Civilian Title: Tank-Truck Driver (903.883)

3. Military Titles: (Tank-Truck Driver)
   Army: Motor Transport Operator (64C)
   Navy: Equipment Operator (EO)
   Marine Corps: Refueler Operator (3534)

4. Composite Service Job Statement: Drives tank-truck to deliver gasoline, fuel oil, lubricating oil, or liquefied petroleum gas. Drives truck into position to load at filling rack. Opens valves or starts pumps to fill tank. Reads gauges or meters and records quantity loaded. Drives truck to premises. Connects hose to tank and opens valves. May attach ground wire to truck.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile or electric shop.
   b. Physical: None.
   c. Specific: Experience in construction work and automotive repair.

6. Related Service Jobs:
   Air Force: Vehicle Operator/Dispatcher (60350)

TRAILER-TRUCK DRIVERS

1. USOE Cluster: Transportation
2. Civilian Title: Tractor-Trailer Truck Driver (904.883)
3. Military Titles: (Tractor Trailer Truck Driver)
   Army: Motor Transport Operator (64C)
   Navy: Equipment Operator (EO)
   Air Force: Vehicle Operator/Dispatcher (60350)
   Marine Corps: Tractor Trailer Operator (3533); Refueler Operator (3534)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Drives truck tractor with semitrailers, truck tractors with a semitrailer and full trailer combination, and cargo truck with dolly converter and semitrailer or full trailer and other vehicle or combination of vehicles up to the maximum length allowed by law and regulation. Checks fifth wheel and trailer king pin for serviceability and adjusts the fifth wheel locking jaws when required. Emplaces lowbed wheel protectors and loading ramps prior to loading/unloading equipment and removes and stores these items when not in use. Checks refrigeration vans for proper operation and temperatures.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in automotive repair.
   b. Physical: None.
   c. Specific: Experience in the operation of automotive equipment and tractors with trailers attached.
6. Related Service Jobs: None.

TRUCK DRIVERS, HEAVY

1. USOE Cluster: Transportation
2. Civilian Title: Truck Driver, Heavy (905.883)
3. Military Titles: (Truck Driver)
   Army: Motor Transport Operator (64C)
   Navy: Equipment Operator (EO)
   Air Force: Vehicle Operator/Dispatcher (60350)
   Marine Corps: Heavy Vehicle Operator (3531)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Drives gasoline or diesel powered vehicles of more than 3 ton capacity to transport personnel and material. Performs minor maintenance on vehicles. Prepares vehicle maintenance, mileage fuel consumption and equipment status reports.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in automobile shop.
   b. Physical: None.
   c. Specific: Experience in automotive repair.
6. Related Service Jobs:
   Air Force: Construction Equipment Operator (55151)

TRUCK DRIVERS, LIGHT

1. USOE Cluster: Transportation
2. Civilian Title: Truck Driver, Light (906.883)
3. Military Titles: (Truck Driver)
   Army: Motor Transport Operator (64C)
   Navy: Equipment Operator (EO)
   Air Force: Vehicle Operator/Dispatcher (60350)
   Marine Corps: Light Vehicle Operator (3535)
   Coast Guard: Equipment Operator (QC: B8)
4. Composite Service Job Statement: Performs any one or a combination of: Drives wheeled passenger and cargo-carrying motor vehicles under three ton capacity. Inspects vehicles prior to operations. Drives vehicles over all types of roads for hauling passengers or cargo or for use as prime movers in towing. Assists in, or directs the loading of cargo and passengers. Camouflages vehicles with natural and artificial materials. Protects vehicles against chemical warfare agents and decontaminates vehicles when exposed to chemical attack. Maintains daily motor vehicle record. Reports malfunctions of vehicles to cognizant authority. Performs preventive maintenance and makes authorized repairs to vehicles.
5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automobile and electric shop.
   b. Physical: None.
   c. Specific: Experience in automotive repair.
6. Related Service Jobs:
   Navy: Aviation Support Equipment Technician (AS)

MOTOR FREIGHT

1. USOE Cluster: Transportation
2. Civilian Title: Driver Supervisor (909.138)
3. Military Titles: (Truck Master)
   Army: Motor Transport Operator (64C)
   Navy: Equipment Operator (EO)
   Air Force: Vehicle Operations Supervisor (60370)
   Marine Corps: Motor Transport Operations Chief (3537)
4. Composite Service Job Statement: Supervises and coordinates activities of tractor trailer truck drivers and heavy/light truck drivers engaged in operating motor vehicles to haul materials. Studies production schedules and estimates man-hour requirements for completion of job assignment. Enforces safety regulations. May train new drivers.
5. Desirable Qualifications Summary:
   a. Academic Background: Courses in principles of gasoline and diesel engines.
   b. Physical: None.
   c. Specific: Experience in automotive repair.
6. Related Service Jobs:
   Marine Corps: Engineer Equipment Chief (1349)

RAILROAD TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Braker, Passenger Train (910.364)
3. Military Titles: (Brakeman)
   Army: Trainman (65J)
4. Composite Service Job Statement: Inspects equipment, such as couplings, airhoses, journal boxes, and handbrakes, to insure that they function properly. Assists passengers to board and leave train. Turns knobs and pushes switches on control panel to regulate air conditioning, heating, and lighting on train. Sets warning signals, such as flares, flags, lanterns, or torpedoes in front of and at rear of train during emergency stops to warn oncoming trains. Makes minor repairs to couplings, airhoses, and journal boxes.
5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Army: Railway Senior Sergeant (65Z)

RAILROAD TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Locomotive Engineer I (910.383)
3. Military Titles: (Engineer)
   Army: Locomotive Operator (65H)
4. Composite Service Job Statement: Drives electric, diesel-electric, steam, or gas-turbine-electric locomotive, interpreting train orders, block or semaphore signals, and railroad rules and regulations to transport passengers or freight. Inspects locomotive before run begins to insure it is equipped with fuel, sand, water, and other supplies. Operates throttle, air brakes, and other controls to drive locomotive when starting signal is received. Observes track to see that it is clear of obstacles at all times. Inspects locomotive after run to detect damaged or defective equipment.
5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Army: Railway Senior Sergeant (65Z)

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Boatswain (911.131)

3. Military Titles: (Boatswain)

Army: Watercraft Operator (61B)

Navy: Boatswain's Mate (BM); Minesweeping Boatswain's Mate (BM-0107); Minesweeper Boat Captain (BM-0163)

Air Force: Boatmaster (59170)

Coast Guard: Boatswain's Mate (BM)

4. Composite Service Job Statement: Supervises deckhands engaged in cleaning decks and lifeboats, chipping, scraping, wirebrushing and painting decks, sides and superstructure. Examines cargo-handling gear, lifesaving equipment and minesweeping equipment, and supervises crewmen engaged in repairing or replacing defective gear and equipment.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in algebra.

b. Physical: Manual dexterity.

c. Specific: Small boat experience.

6. Related Service Jobs:

Navy: Quartermaster (QM); Aviation Boatswain's Mate (AB)

Coast Guard: Quartermaster (QM)

WATER TRANSPORTATION

1. USOE Cluster: Transportation

2. Civilian Title: Superintendent, Stevedoring (911.138)

3. Military Titles: (Stevedore Superintendent)

Army: Terminal Operations Specialist (57H)

Navy: Stevedore (BM-0114)

Marine Corps: Shore Party Man (1381)

Coast Guard: Boatswain's Mate (BM); Dangerous Cargoman (QC: DG); Explosive Loading Supervisor (QC: E1); Explosive Loading-Hatch Supervisor (QC: EA)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in loading and unloading of ships' cargoes. Directs activities of workers in loading or unloading materials requiring special handling such as explosives, vehicles and other machinery. Supervises workers engaged in checking and loading cargo to insure that cargo is loaded according to instructions.

5. Desirable Qualifications Summary:

a. Academic Background: None.

b. Physical: Manual dexterity and physical strength.

c. Specific: Experience in warehousing. High degree of leadership ability.

6. Related Service Jobs:

Navy: Gunner's Mate (GM); Boatswain's Mate (BM); Storekeeper (SK); Equipment Operator (EO)

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Motor Boat Operator (911.883)
3. Military Titles: (Motorboat Operator)
   Army: Watercraft Operator (61B); Amphibian Engineer (61E)
   Navy: Yard Craft Boat Captain (BM-0162); Assault Boat Coxswain (BM-0164); Landing Craft Utility Captain (BM-0165); Hydrofoil Craft Crewman (9539); Surface Effect Ship Crewman (9538); Coastal/Riverine Combatant Craft Crewman (9533); Fast Patrol Boat (PTF) Crewman (9534)
   Air Force: Seaman (59150)
   Coast Guard: Boatswain's Mate (BM)

4. Composite Service Job Statement: Performs any one or a combination of the following: Operates motor-driven boat to carry passengers and freight; takes soundings in turning basin, serves as liaison between ships, ship and shore, harbor and beach area patrol, or to tow, push, or guide other boats, barges, logs, or rafts. Casts off securing lines and starts motor. Moves gear lever to place boat in forward or reverse motion, and steers boat with helm or tiller. Maintains equipment such as range markers, fire extinguishers, boat fenders, lines, pumps, and fittings. Cleans boat and repairs hull and superstructure using handtools, paint, and brushes. May tune up, overhaul or replace engine. Sets course using navigational aids, such as charts, area plotting sheets, compass, and sextant. Steers or orders helmsman to steer boat and navigates boat to avoid reefs, outlying shoals, and other hazards.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Small boat experience.

6. Related Service Jobs:
   Army: Marine Senior Sergeant (61Z)
   Navy: Signalman (SM); Quartermaster (QM); Boatswain's Mate (BM)
   Coast Guard: Quartermaster (QM)

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Quartermaster (911.883)
3. Military Titles: (Quartermaster)
   Navy: Quartermaster (QM); Signalman (SM)
   Coast Guard: Quartermaster (QM)

4. Composite Service Job Statement: Performs any one or a combination of the following duties: Steers ship and maintains visual communications with other ships. Steers ship under direction of ship's commander or navigating officer, or directs helmsman to steer, following designated course. Stands by wheel when ship is on automatic pilot and verifies accuracy of course by comparing with magnetic compass. Relays specified signals to ships in vicinity using visual signalling devices such as blinker light, semaphore, and flag-hoist. Pre-

pares heading and address for outgoing messages. Handles, routes, and files messages. Encodes and decodes message headings. Renders passing honors to ships and boats. Displays ensigns and personal flags during salutes and during personal and national honors. Repairs signal flags, pennants and ensigns. Procures, corrects, uses and stows navigational and oceanographic publications and oceanographic charts. Maintains navigational instruments and keeps correct navigational time.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in geometry, physics, and English grammar.
   b. Physical: Vision correctable to 20/20 (Navy). Normal color discrimination.
   c. Specific: Ability to speak and write clearly.
   May require appropriate security clearance.

6. Related Service Jobs:
   Army: Watercraft Operator (61B)
   Navy: Boatswain's Mate (BM)
   Air Force: Seaman (59150)
   Coast Guard: Boatswain's Mate (BM)

WATER TRANSPORTATION

1. USOE Cluster: Transportation

2. Civilian Title: Stevedore (911.883)

3. Military Titles: (Stevedore)
   Army: Terminal Operations Specialist (57H)
   Navy: Stevedore (BM-0114)
   Coast Guard: Boatswain's Mate (BM)

4. Composite Service Job Statement: Operates material-handling equipment such as power winch, crane, and lift truck to transfer cargo into or from hole of ship and about dock area. Operates crane or winch to load or unload cargo using hook, magnet, or sling in accordance with signals from other workers. Drives lift truck along dock or aboard ship to transfer bulk items such as lumber, pallet-mounted machinery, and crated products within range of winch. Drives tractor to transfer loaded trailers from warehouse to dockside. May position and fasten hose lines to ships' cargo tanks when loading or unloading liquid cargo. May perform variety of manual duties such as lashing and shoring cargo aboard ship, attaching slings, hooks, or other lifting devices to winch for loading or unloading; and signalling other workers to move, raise, or lower cargo. May direct activities of cargo gang.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Manual dexterity, physical strength.
   c. Specific: Experience in warehousing.

6. Related Service Jobs:
   Navy: Boatswain's Mate (BM); Gunner's Mate (GM); Storekeeper (SK); Equipment Operator (EO)
   Air Force: Freight Traffic Specialist (60251)

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Able Seaman (911.884)
3. Military Titles: (Able Seaman)
   Army: Watercraft Operator (61B)
   Navy: Seaman (SN)
   Air Force: Seaman (59150)
   Coast Guard: Seaman (QC: SN)

4. Composite Service Job Statement: Operates and maintains boats and related deck equipment. Handles and adjusts lines, ropes, hawsers and fenders when docking or getting underway. Steers boat according to compass course, navigation course, navigation charts and rules of the road. Repairs deck and hull seams by calking with cotton and oakum seams compounds. Inspects and inventories such equipment as lifeboats, dinghies, rubber rafts, floatation gear and first-aid kits.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: Normal color discrimination.
   c. Specific: None.
6. Related Service Jobs:
   Air Force: Marine Engineman (59151)

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Ordinary Seaman (911.887)
3. Military Titles: (Seaman)
   Army: Watercraft Operator (61B)
   Navy: Seaman (SN)
   Air Force: Seaman (59150)
   Coast Guard: Seaman (QC: SN)

4. Composite Service Job Statement: Stands deck department watches and performs a variety of tasks to preserve painted surfaces of ship and to maintain lines, running gear, and cargo handling gear in safe operating condition: Watches from bow of ship or wing of bridge for obstructions in path of ship. Turns wheel while observing compass to steer and maintain ship on course. Swabs or washes down deck, using hose, to remove oil, dirt, and debris. Chips and cleans rust spots from deck, superstructure, and sides of ship, using hand or air chipping hammer and wire brush. Paints chipped area. Splices wire rope, using marlinespike, wirecutters, and twine. Steers ship on open sea.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs: None.

AIR TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Cargo Agent (912.368)
3. Military Titles: (Cargo Agent)
   Air Force: Air Cargo Specialist (60551)
   Marine Corps: Air Freight Transportation Clerk (3122)
4. Composite Service Job Statement: Routes inbound and outbound air freight shipments to their destinations: Takes telephone orders from customers and arranges for pickup of freight and delivery to loading platform. Assembles cargo according to destination. Weighs items and determines cost, using rate book. Prepares manifest to accompany shipments. Notifies shippers of delays in departure of shipment. Unloads inbound freight and notifies consignees on arrival of shipments and arranges for delivery to consignees.
5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Army: Terminal Operations Specialist (57H)
   Air Force: Air Passenger Specialist (60550)

AIR TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Transportation Agent (912.368)
3. Military Titles: (Transportation Agent)
   Army: Movements Specialist (71N)
   Navy: Flight Attendant (8289)
   Air Force: Air Passenger Specialist (60550)
   Marine Corps: Air Freight Transportation Clerk (3122)
4. Composite Service Job Statement: Processes and schedules eligible passengers for airlift. Loads and unloads passenger carrying aircraft. Provides for security and handling of baggage and mail. Provides passenger information on such items as schedules, routes, travel requirements, baggage limitations, and availability of insurance.
5. Desirable Qualifications Summary:
   a. Academic Background: Course in geometry.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Air Force: Passenger and Household Goods Specialist (60250); Air Cargo Specialist (60551)

AIR TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Airport Attendant (912.384)
3. Military Titles: (Airport Attendant)
   Navy: Aviation Boatswain's Mate (Aircraft Handling—ABH)

4. Composite Service Job Statement: Performs any combination of the following duties: Directs the movement and spotting of aircraft. Secures and ties down aircraft and handling equipment. Operates and services ground-handling equipment such as aircraft cranes, tractors, tow bars and aircraft crash, firefighting and rescue equipment. Responds to actual or potential air-crash emergencies to prevent or extinguish fires and rescue plane crew, working as member of rescue squad. May perform similiar duties aboard aircraft carriers involving aircraft, aircraft support equipment and operation of aircraft elevators.

5. Desirable Qualifications Summary:
   a. Academic Background: Course in shopwork.
   b. Physical: Normal color discrimination. 20/30 vision uncorrected (Navy).
   c. Specific: Experience in handling aircraft.
6. Related Service Jobs:
   Army: Aviation Maintenance (67B-67Z)
   Navy: Boatswain's Mate (BM); Equipment Operator (EO); Aviation Support Equipment Technician (AS)
   Air Force: Fire Protection Specialist (57150); Aircraft Maintenance Specialist (43151)

AIR TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Parachute Rigger (912.884)
3. Military Titles: (Parachute Rigger)
   Army: Parachute Rigger (43E)
   Navy: Aircrew Survival Equipmentman (PR)
   Air Force: Parachute Rigger (58150)
   Marine Corps: Flight Equipment Man (6064); Air Delivery Man (7141)
   Coast Guard: Aviation Survivalman (ASM)

4. Composite Service Job Statement: Packs and repairs all types of cargo and personnel parachutes, and rigs equipment and supply containers for airdrop. Loads, positions, lashes and/or rigs equipment within aircraft. Inspects parachutes before and after each use, and at prescribed intervals, and specifies repair requirements. Drop-tests parachutes when possible malfunction is indicated. Replaces components of parachute assemblies using sewing machine or darning needle. Repairs and maintains all airdrop equipment, including heavydrop equipment. Assigns duties, instructs, and inspects work of personnel engaged in packing and repair of parachutes, and storage of airdrop equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general shop and sewing.

b. Physical: Normal color discrimination.
c. Specific: None.

6. Related Service Jobs:
Air Force: Survival Specialist (92150)
Marine Corps: Flight Equipment Man (6064); Reconnaissance Man, Parachute Jump Qualified (8652); Reconnaissance Man, Parachute and SCUBA Qualified (8654); Parachute/SCUBA Man (9953)

AIR TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Line-Service Attendant (912.887)
3. Military Titles: (Aviation Fuels Handler)
Army: Petroleum Supply Specialist (76W)
Navy: Aviation Boatswain's Mate (Fuels) (ABF); Aviation Gasoline Handler (AB-7022)
Air Force: Fuel Specialist (63150)
Marine Corps: Bulk Fuel Man (1391); Refueler Operator (3534)

4. Composite Service Job Statement: Operates aviation fuel and lubricating oil distribution systems. Issues, transfers and transports petroleum products. Fuels or defuels aircraft. Sets valves or meters, operates pumps to receive or transfer fuel and observes pressure indicators and quantity gauges during pumping operations. Operates mobile fueling and lube oil equipment.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in shop work, physics and chemistry.
b. Physical: Normal color discrimination. 20/30 vision uncorrected (Navy).
c. Specific: None.

6. Related Service Jobs: None.

PUMPING AND PIPELINE TRANSPORTATION

1. USOE Cluster: Agri-Business and Natural Resources
2. Civilian Title: Pumper (914.885)
3. Military Titles: (Pumper)
Army: Petroleum Supply Specialist (76W)
Navy: Petroleum Tank Farm Technician (UT-6117)
Air Force: Fuels Specialist (63150)
Marine Corps: Bulk Fuel Man (1391)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Operates and maintains storage and transfer equipment for petroleum products. Distributes petroleum by connecting tanks, operating pump engines and opening valves to transfer

petroleum. Reads meters and gauges to determine completion of transfer, and verifies amount and type of petroleum in storage. Operates fire fighting equipment and personnel protective and safety equipment common to petroleum storage facilities.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra and geometry:
   b. Physical: Normal color discrimination.
   c. Specific: Experience or apprentice training in plumbing and related fields.

6. Related Service Jobs:
   Navy: Utilitiesman (UT); Aviation Boatswain's Mate (Fuels) (ABF)

ATTENDANTS AND SERVICERS, PARKING LOTS AND SERVICE FACILITIES

1. USOE Cluster: Transportation
2. Civilian Title: Tire Repairer (915.884)
3. Military Titles: (Tire Repairer)
   Army: Tire Repairman (57C)

4. Composite Service Job Statement: Repairs pneumatic tires, collapsible fabric and synthetic containers, and reconditions inner tubes; determines location of damage and type of repairs necessary. Prepares tires for repairs by bitcutting, skinning, buffing, or delugging and cleaning tire surface. Seals puncture in tubeless tire by inserting adhesive material and expanding rubber plugs into puncture using handtools. Vulcanizes breaks and holes in the tire carcasses with chemical-curing and/or conventional curing materials and techniques.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs: None.

MISCELLANEOUS TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Tow-Truck Operator (919.883)
3. Military Titles: (Tow Truck Operator)
   Army: Recovery Specialist (63F)
   Navy: Equipment Operator (EO)
   Air Force: Vehicle Operator/Dispatcher (60350)
   Marine Corps: Vehicle Recovery Man (3523)

4. Composite Service Job Statement: Drives tow-truck to move inoperative or damaged vehicles. Receives call or is dispatched to location of accident or stalled vehicle. Attaches anti-sway bar to vehicle by means of cable, chains, or other grappling devices, and hoists one end of vehicle, using hand or powered winch, to tow vehicle. May make minor repairs to vehicles such as replacing spark plugs, batteries and light bulbs, and connecting loose wires.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automotive and electrical shop.
   b. Physical: None.
   c. Specific: Experience in automotive repair.

6. Related Service Jobs:
   Army: Motor Transport Operator (64C)
   Navy: Aviation Boatswain's Mate (AB)

MARKETING AND DISTRIBUTION

1. USOE Cluster: Marketing and Distribution

2. Civilian Title: Crater II (920.884)

3. Military Titles: (Packaging Specialist)
   Army: Equipment Storage Specialist (76V)
   Air Force: Packaging Specialist (60154)
   Marine Corps: Packaging Specialist (3052)

4. Composite Service Job Statement: Packs, crates, stencils, weighs, and bands equipment and supplies for shipment or storage. Constructs containers such as boxes, cases and skids. Builds and installs special separators, special mountings, hinges, bulkheads, screw-in lids, felt on saddles, and protective or waterproof linage. Insures proper indentification, marking, labeling and inclusion of shipping documents and special handling instructions on all shipment or storage items. Moves supplies, using both motorized and non-motorized materials handling equipment. May supervise shipping and warehousing activities.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Army: Subsistence Storage Specialist (76X)
   Navy: Storekeeper (SK); Aviation Storekeeper (AK)
   Air Force: Freight Traffic Specialist (60251); Materiel Facilities Specialist (64750)
   Marine Corps: Freight Transportation Clerk (3121); General Warehouseman (3051)
   Coast Guard: Storekeeper (SK)

HOISTING AND CONVEYING

1. USOE Cluster: Construction

2. Civilian Title: Rigger II (921.280)

3. Military Titles: (Crane Operator)
   Army: Crane Operator (62F)
   Navy: Boatswain's Mate (BM)

Air Force: Construction Equipment Operator (55151)
Marine Corps: Combat Engineer (1371)
Coast Guard: Boatswain's Mate (BM)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Assembles rigging to lift and move equipment or material in shipyard or construction project. Selects cables, ropes, pulleys, winches, blocks, and sheaves according to weight and size of load to be moved. Attaches pulley and blocks to fixed overhead structures, such as beams, ceilings, and gin pole booms, with bolts and clamps. Attaches load with grappling devices, such as loops, wires, ropes, and chains, to crane hook. Sets up, braces, and rigs hoisting equipment using handtools and power wrenches. Splices rope and wire cables to make or repair slings and tackle.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Manual strength and dexterity.
   c. Specific: High degree of leadership ability.

6. Related Service Jobs:
   Navy: Aviation Boatswain's Mate (AB)

MOVING AND STORING MATERIALS

1. USOE Cluster: Transportation

2. Civilian Title: Industrial-Truck Operator (922.883)

3. Military Titles: (Fork Lift Operator)
   Army: Rough Terrain Fork Lift and Loader Operator (62M)
   Air Force: Packaging Specialist (60154); Freight Traffic Specialist (60251); Air Cargo Specialist (60551)
   Marine Corps: Engineer Equipment Operator (1345); General Warehouseman (3051); Freight Operations Man (3111); Air Freight Operations Man (3112)
   Coast Guard: Equipment Operator (QC: B8)

4. Composite Service Job Statement: Drives gasoline or electric powered industrial truck or tractor, equipped with forklift, elevating platform, or trailer hitch, to push, pull, lift, stack, or tier merchandise, equipment or bulk materials in warehouse or storage yard. Moves levers and depresses pedals to drive truck and control movement of lifting apparatus. Positions forks or lifting platform under loaded pallets, skid, or boxes, or hooks tow trucks to trailer hitch and transports load to designated area. Unloads and stacks material by raising and lowering lift forks or lifting platform. May inventory materials on work floor and supply workers with materials as needed. May lubricate truck, recharge battery, and fill fuel tank.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
Army: Equipment Storage Specialist (76V)
Navy: Storekeeper (SK); Equipment Operator (EO); Boatswain's Mate (BM); Aviation Boatswain's Mate (AB)
Air Force: Material Facilities Specialist (64750)

STATIONARY ENGINEERS

1. USOE Cluster: Public Service
2. Civilian Title: Stationary Engineer (950.782)
3. Military Titles: (Stationary Engineer)
Army: General Construction Machine Operator (62J); Power Station Operator (52E)
Navy: Utilitiesman (UT); Machinist's Mate (MM); Gas Turbine System Technician (GS); Electrolytic Oxygen Generator Operator (MM-4252); Shore Based Boiler Controls Technician (UT-6102); Electrolytic Oxygen Generator Operator/Mechanical Technician (MM-4262); Ship Repair, Outside Machinist (MM-4272); Propulsion Machinery Technician (MM-4296-4297); Engineman (EN)
Air Force: Electrical Power Production Specialist (54350)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Operates and maintains stationary engines and mechanical equipment, such as steam engines, air compressors, generators, motors, turbines, and steam boilers, to provide utilities such as light, heat, and power. Reads meters and gauges and adjusts controls of equipment to verify specified operating conditions. Records data such as temperature of equipment, hours of operation, fuel consumed, and temperature and analysis of gases.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in mathematics and shop.
b. Physical: None.
c. Specific: Experience in stationary steam or diesel engineering, water supply, or sanitary engineering.

6. Related Service Jobs:
Navy: Boiler Technician (BT)

FIRERS AND RELATED

1. USOE Cluster: Transportation
2. Civilian Title: Firer, Marine (951.885)
3. Military Titles: (Marine Fireman)
Navy: Boiler Technician (BT); Fireman (FN); Automated Propulsion Control System Operator (BT-4501); Automatic Combustion Control Maintenanceman (BT-4511-4514); Pressure-Fired Boiler Operator (BT-4515); Steam-Generating Plant Operator (BT-4523); Automatic Combustion Control Console Operator (BT-4531-4533)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Tends boilers aboard vessel to maintain steam at specified pressure. Installs atomizing tips on end of burner barrels with wrench. Inserts barrels in burners. Connects fuel-oil lines to burners. Ignites fuel with torch. Adjusts burners to maintain steam pressure at specified level. Cleans drip pans, atomizing tips, burner barrels and work areas using steam connections, solvent or rags.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop and physics.
   b. Physical: None.
   c. Specific: Working conditions require exposure to intense heat. Skill in working with handtools and power tools.

6. Related Service Jobs:
   Navy: Boiler Maker (BR); Machinist's Mate (MM); Utilitiesman (UT)

GENERATION, TRANSMISSION, AND DISTRIBUTION OF ELECTRIC LIGHT AND POWER

1. USOE Cluster: Public Services

2. Civilian Title: Power-Reactor Operator (952.380)

3. Military Titles: (Power Reactor Operator)
   Army: Nuclear Power Plant Mechanic/Operator (52H); Nuclear Power Plant Electrician/Operator (52J); Nuclear Power Plant Instrumentation/Operator (52K); Nuclear Power Plant Process Control (52L); Nuclear Power Plant Chief (52M)
   Navy: Nuclear Propulsion Plant Operators (MM, EN, IC, EM, ET, BT) (3351, 3353-3356, 3359, 3361, 3363-3366, 3383-3386, 3389, 3391, 3393-3396); Nuclear Power Plant Operator/Special Category Non-Propulsive (CE, EO, CM, SW, UT, HM) (3391)
   Air Force: Nuclear Reactor Systems Specialist (54830)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Directs and controls the installation, operation, maintenance, repair, overhaul, modification, calibration, and testing of nuclear reactor systems and associated equipment to include electrical generating equipment, mechanical equipment, electronic equipment, instrumentation equipment, process controls, and control equipment, remote fuel handling tools, and hot cell equipment. Performs periodic and special inspections of nuclear reactor systems activities to assure compliance with policies, regulations, and technical publications. Operates, maintains and performs organizational level maintenance on nonpropulsive nuclear power plants and radioisotope power devices.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, physics, trigonometry, and electrical/electronics shop.
   b. Physical: Normal color discrimination.
   c. Specific: May require appropriate security clearance. Above average learning ability.

6. Related Service Jobs:
   Navy: Nuclear Propulsion Plant Operator Trainee-Submarine (9901); Nuclear Propulsion Plant Operator Trainee-Surface (9903)

GENERATION, TRANSMISSION, AND DISTRIBUTION OF ELECTRIC LIGHT AND POWER

1. USOE Cluster: Manufacturing
2. Civilian Title: Diesel-Plant Operator (952.782)
3. Military Titles: (Diesel Plant Operator)
   Army: Power Generation Equipment Operator/Mechanic (52B); Power Pack Specialist (52C); Power Station Operator (52E)
   Navy: Ground Controlled Approach Power Equipment Mechanic (EN-4353)
   Air Force: Electrical Power Production Specialist (54350)
   Marine Corps: Electrician (1141)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Controls and maintains in efficient operating condition diesel-electric generating units that produce electric power for distribution. Starts diesel engines and synchronizes generator with other generators in operation or with other power services. Reads indicating and recording instruments and records operating data on log sheets.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, geometry, physics, and shop.
   b. Physical: None.
   c. Specific: Experience or aptitude for working with handtools.
6. Related Service Jobs:
   Army: Electrician (51R)
   Navy: Engineman (EN)
   Marine Corps: Electrical Equipment Repairman (1142); Engineer Equipment Mechanic (1341)
   Coast Guard: Electrician's Mate (EM)

GENERATION, TRANSMISSION, AND DISTRIBUTION OF ELECTRIC LIGHT AND POWER

1. USOE Cluster: Public Service
2. Civilian Title: Power-Plant Operator I (952.782)
3. Military Titles: (Power Plant Operator)
   Army: Power Station Operator (52E) Power Generation Equipment Operator/Mechanic (52B); Power Pack Specialist (52C); Nuclear Power Plant Mechanic/Operator (52H); Nuclear Power Plant Electrician/Operator (52J); Nuclear Power Plant Instrumentman/Operator (52K); Nuclear Power Plant Process Control Specialist/Operator (52L)
   Navy: Auxiliary Equipment Technician, Surface Ship (MM-4298); SSN/SSBN Auxiliary Equipment Technician (MM-4245); Gas Turbine System Technician (GS)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Performs any one or a combination of the following tasks: Operates boilers, turbines, generators, and auxiliary equipment at generating plant to produce electricity. Monitors control board and regulates equipment according to data provided by recording and indicating instruments. Adjusts controls of water, cold feed systems, blowers, and igniters to start or shut down boilers. Controls operation of boiler auxiliary equipment such as water and vacuum pumps, coal driers, pulverizers, steam condensers, and soot blowers to insure efficient operation of boilers. Adjusts controls to regulate speed, voltage, and phase of incoming turbines to coincide with voltage and phase of power being generated. Monitors gauges to determine effect of generator loading on related equipment such as buses and voltage regulators. Corrects abnormal conditions such as loss of steam pressure due to oil line rupture by starting emergency or standby oil pumps.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in shop mathematics and algebra.
   b. Physical: Normal color discrimination.
   c. Specific: May require appropriate security clearance.

6. Related Service Jobs:
   Army: Electrician (51R)
   Navy: Machinist's Mate (MM); Engineman (EN)
   Air Force: Electrical Power Production Specialist (54350)
   Coast Guard: Electrician's Mate (EM)

FILTRATION, PURIFICATION AND DISTRIBUTION OF WATER

1. USOE Cluster: Public Service

2. Civilian Title: Water-Treatment-Plant Operator (954.782)

3. Military Titles: (Water Treatment Plant Operator)
   Army: Water Supply Specialist (51N)
   Navy: Utilitiesman (UT)
   Air Force: Environmental Support Specialist (56350)
   Marine Corps: Plumbing and Water Supply Man (1121)
   Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Controls treatment plant equipment to purify and clarify water for human consumption and industrial use. Controls flow of raw water into plant by starting and regulating operation of electric motors, pumps, and valves. Adds specified amounts of chlorine, ammonia, lime, or other chemicals to disinfect, deodorize, and clarify water, or adjusts automatic devices which admit chemicals in controlled dosages. Starts agitators to mix ingredients. Allows impurities precipitated by chemicals, to settle to bottom of tank. Removes suspended impurities by filtering water through coal or sand beds, or other filtering material. Pumps purified water into water mains. Monitors control panel consisting of meters and gauges to determine rate of flow, loss of head, and water elevation, and manipulates switches to adjust distribution of water. Cleans tank and filter beds by flushing with hose or backwashing (reversing flow of water). Lubricates moving parts of machines and makes minor repairs and adjustments to maintain operating efficiency. Determines acidity and color of water by standard color reaction tests. Determines amount of impurities in water, using conductivity meter, adding alum and other chemicals to coagulate impurities and reduce acidity.

Records such data as residual content of chemicals, water turbidity, and water pressure. May filter water through rotating screens to remove coarse impurities. May perform maintenance of water, waste water, and solid wastes processing equipment systems and controls.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics and chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in water supply or sanitary engineering.
6. Related Service Jobs:
   Navy: Machinist's Mate (MM); Boiler Techniican (BT)

TRANSMISSION OF COMMUNICATIONS (NEC)

1. USOE Cluster: Communication and Media
2. Civilian Title: Transmitter Operator (957.282)
3. Military Titles: (Radioman)
   Navy: Military Affiliate Radio System (MARS) Operator (9577)
   Marine Corps: Military Affiliate Radio System Radio Operator (8981)
   Coast Guard: Electronics Technician Communications (ETN); Radioman (RM)

4. Composite Service Job Statement: Installs, operates, and maintains station radio equipment in compliance with FCC regulations. Repairs, calibrates and tunes station equipment such as: transmitters, receivers, teletype, converters and antenna systems. Transmits and receives messages using radiotelegraph, voice or teletype equipment. Maintains station records on transmissions and maintenance.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics, physics, electricity and radio repair.
   b. Physical: Normal color discrimination, normal hearing, clear speaking voice required.
   c. Specific: FCC Amateur Radio License of conditional class or higher required (Navy and Marine Corps).
6. Related Service Jobs:
   Army: Fixed Station Radio Repairman (32H); Audio Specialist (84B); Voice Radio Operator (05E); Radio Operator (05B)
   Navy: Radio-TV Specialist (JO-3221); Radioman (RM)
   Air Force: Radio Operator (29353); Ground Radio Communications Equipment Repairman (30454)
   Marine Corps: Ground Radio Repairman (2841); Aviation Radio Repairman (2851)
   Coast Guard: Aviation Electronics Technician (AT)

TRANSMISSION OF COMMUNICATIONS

1. USOE Cluster: Public Service
2. Civilian Title: Radar Operator (957.382)

3. Military Titles: (Radar Operator)

Army: Ground Surveillance Radar Crewman (17K); Hercules Fire Control Crewman (16C); Fire Distribution System Crewman (16K); Field Artillery Radar Crewman (17B); Defense Acquisition Radar Crewman (16J); HAWK Fire Control Crewman (16E)

Navy: Operations Specialist (OS); Radar Air Controllers (OS-0313 thru 0319); Electronic Warfare Operator (OS-0334); Carrier Controlled Approach Controllers (AC-6911-6912); Naval Warfare Operations Specialist (OS-0341); Ground Controlled Approach Controller (AC-6922)

Air Force: Electronic Warfare Countermeasures Specialist (27631); Aerospace Control and Warning System Operator (27650)

Marine Corps: Field Artillery Radar Operator (0842); HAWK Missile System Operator (7222); Air Command and Control Electronics Operator (7234); Tactical Air Controller (7236); Air Command, Control and Defense System Supervisor (7239); Air Support Operations Operator (7242); Air Traffic Controller—Radar (7322)

Coast Guard: Radarman (RD)

4. Composite Service Job Statement: Operates radar equipment to search for, locate, and track the movement of contacts such as ships, aircraft, missiles, artillery projectiles, or personnel. Turns on set and makes various adjustments and checks such as tuning transmitter, orienting scope, and checking reading of instruments to insure radar is operating properly. Monitors scope and distinguishes between radar targets caused by ships, aircraft, personnel, vehicles, or weather. Determines range, bearing, altitude, and identity of friendly or hostile radar contact. Identifies interference or jamming on presentation and takes appropriate countermeasures to alleviate the situation. Advises command on operating capabilities of equipment. May direct aircraft in the interception of hostile targets. May control air traffic at an air traffic control facility. May furnish target information to artillery, naval gun, or missile fire controllers.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in algebra, geometry, and trigonometry.

b. Physical: May require FAA Class II Physical Examination. Normal color discrimination.

c. Specific: May require security clearance. Clear speaking voice. Ability to function well during times of stress.

6. Related Service Jobs:

Navy: Air Controlman (AC); Aviation Antisubmarine Warfare Operator (AW); Sonar Technician (ST); Ocean Systems Technician (OT)

Air Force: Defensive Fire Control Systems Operator (32750)

Coast Guard: Fire Control Technician (FT); Aviation Electronics Technician (AT); Sonar Technician (ST)

TRANSMISSION OF COMMUNICATIONS

1. USOE Cluster: Public Services

2. Civilian Title: Sonar Operator (957.382)

3. Military Titles: (Sonar Operator)

Navy: Aviation Antisubmarine Warfare Operator (AW); Aviation Antisubmarine Warfare Systems Operator (AW-7811, 7815, 7821, 7825, 7831, 7851, 7861, 7871-72, 7881); Sonar Technician (ST); Sonar Equipment Technicians (ST-0409 thru 0427) and (ST-0445 thru 0459); Combat System Technician (9535)

Coast Guard: Sonar Technician (ST)

4. Composite Service Job Statement: Operates electronic equipment used to detect and/or locate moving or immobile underwater objects. Manipulates dials and other controls to cause equipment to emit sound pulses in desired direction. Observes results. When pulses are returned as echoes from an object, uses visual and audible presentations to determine range, bearing, speed, and direction of movement. Analyzes tonal quality of returns to determine probable identity of object such as submarine, fish, etc. Locates and analyzes equipment malfunctions and makes repairs and adjustments. Performs organizational and intermediate maintenance on sonar and allied equipment.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in electricity, electronics, trigonometry, algebra, physics and radio mechanics.

b. Physical: Normal color discrimination. Special auditory requirements.

c. Specific: High degree of electrical and mechanical aptitude.

6. Related Service Jobs:

Navy: Electronics Warfare Technician (EW); Aviation Antisubmarine Warfare Technician (AX)

MOTION PICTURE PROJECTIONISTS

1. USOE Cluster: Communication and Media

2. Civilian Title: Motion-Picture Projectionist (960.382)

3. Military Titles: (Projectionist)

Army: Audio Specialist (84D)

Navy: Electrician's Mate (EM)

Air Force: Audiovisual Media Specialist (23150)

Marine Corps: Audiovisual Equipment Operator (4931); Audiovisual Equipment Technician (4941)

4. Composite Service Job Statement: Operates all motion picture projectors, sound equipment and sound systems. Inserts film into top magazine reel of projector. Threads film through picture aperture of projector, around pressure rollers, sprocket wheels, and sound drum or magnetic sound pickup on film, and onto spool that automatically takes up film slack. Regulates projection light and adjusts sound-reproducing equipment. Watches operation of machine and corrects malfunction. Cleans lenses, oils equipment and makes minor repairs and adjustments.

5. Desirable Qualifications Summary:

a. Academic Background: Courses in electrical shop and shop mathematics.

b. Physical: Finger dexterity.

c. Specific: Aptitude or experience in electrical work.

6. Related Service Jobs:
   Army: TV Production Specialist (84F)
   Navy: Interior Communications Electrician (IC); Tradevman (TD)

MOTION PICTURE PRODUCTION

1. USOE Cluster: Communication and Media
2. Civilian Title: Editor, Film (962.288)
3. Military Titles: (Film Editor)
   Navy: Motion Picture Script Writer (PH-8146)
   Air Force: Audiovisual Media Specialist (23150)
   Marine Corps: Motion Picture Film Editor (4681)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Edits motion picture film and sound tracks. Evaluates and selects scenes in terms of dramatic and entertainment value and story continuity. Trims film segments to specified lengths and arranges them in sequence that presents story with maximum effect. Reviews assembled film on screen and makes corrections. May specialize in particular field of film editing such as feature, news, sound, sound effects, or music.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in English, journalism, typing, and photography.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in photography as a hobby or job.
6. Related Service Jobs:
   Army: Motion Picture Photographer (84C); TV Production Specialist (84F)
   Navy: Photographer's Mate (PH)

MISCELLANEOUS AMUSEMENT RECREATIONAL AND MOTION PICTURE

1. USOE Cluster: Communication and Media
2. Civilian Title: Audiovisual Equipment Operator (969.782)
3. Military Titles: (Audiovisual Specialist)
   Navy: Tradevman (TD)
   Air Force: Audiovisual Media Specialist (23150)
   Marine Corps: Training Support Chief (4991)

4. Composite Service Job Statement: Assists superior in planning preparation and use of audiovisual testing aids within military training support center. Performs research and experimentation in new methods, materials and techniques for the production of audiovisual aids. Assists teaching personnel in selection of audiovisual materials for specific classes based on knowledge of educational needs and materials available. Evaluates and recommends training aids required to support any training situation or reinforce specific teaching points. Coordinates acquisition of training aids and audiovisual equpment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, electricity, electronics and shop work.
   b. Physical: Ability to speak clearly and distinctly.
   c. Specific: Experience in personnel work, guidance, teaching or recreation supervision.

6. Related Service Jobs:
   Air Force: Graphics Specialist (23151); Training Specialist (75132)
   Marine Corps: Illustrator (4911); Audiovisual Librarian (4921)
   Coast Guard: Photo-Journalist (PA)

LITHOGRAPHERS AND RELATED

1. USOE Cluster: Communication and Media

2. Civilian Title: Photographer, Lithographic (972.382)

3. Military Titles: (Lithographic Photographer)
   Army: Photolithography Chief (83Z); Platemaker (83E)
   Navy: Lithographer (LI)
   Air Force: Photolithography Specialist (71351)
   Marine Corps: Plate/Layout Man (1531); Process Cameraman (1532)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Sets up and operates camera to photograph illustrations and printed material to produce film or glass negatives, or reversed negatives used in the preparation of lithographic printing plates. Mounts material to be photographed on copy board and focuses camera to enlarge or reduce size of object in photograph. Places color filters over film to produce four-color separation, halftone separation and process prints for multi-color printing. Focuses lens, adjusts lights and exposes film to copy for specified period of time. Develops and dries film or glass plate. Prepares film or glass plate positives by contact method from negatives. May prepare original layouts for halftone or color prints by copy-drawing, pasteup, stripping or inking techniques.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in typing, printing, physics and chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in lithography, printing and photography.

6. Related Service Jobs:
   Army: Process Photographer (83D)
   Navy: Photographer (PH)
   Air Force: Printing and Binding Specialist (71350)

DARKROOM

1. USOE Cluster: Communication and Media

2. Civilian Title: Developer (976.381)

3. Military Titles: (Developer)
   Army: Photographic Laboratory Specialist (84G); Process Photographer (83D)
   Navy: Photographer's Mate (PH); Photo Processing Maintenance Man (PH-8133)
   Air Force: Continuous Photoprocessing Specialist (23350); Still Photographic Specialist (23152)
   Marine Corps: Photographer (4631); Photographic Quality Control Specialist (4633); Aviation Photographic Film Processor (6675)
   Coast Guard: Photo-Journalist (PA)

4. Composite Service Job Statement: Develops exposed photographic film or sensitized paper in series of chemical and water baths to produce negative or positive prints. Mixes developing and fixing solutions following formula. Immerses exposed film or photographic paper in developer solution to bring out latent image. Immerses negative or paper in stop bath to arrest developer action, in hypo-solution to fix image, and in water to remove chemicals. Dries negatives and prints by rubbing them with sponge or squeegee and exposing them to air, or placing them in mechanical airdrier. May produce color photographs, negatives and slides using color reproduction processes.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in chemistry, physics and shop mathematics.
   b. Physical: Normal color discrimination.
   c. Specific: Experience in photography as a hobby or job.

6. Related Service Jobs:
   Navy: Lithographer (LI); Photography Technician (HM-8472)
   Air Force: Photoprocessing Control Specialist (23351)
   Marine Corps: Process Cameraman (1532)

DARKROOM

1. USOE Cluster: Communication and Media

2. Civilian Title: Photographic Sensitometrist (976.381)

3. Military Titles: (Photographic Control Specialist)
   Navy: Photographic Quality Controlman (PH-8126)
   Air Force: Photoprocessing Control Specialist (23331)
   Marine Corps: Photographic Quality Control Specialist (4633)

4. Composite Service Job Statement: Performs photographic tests and analysis, certifies laboratory equipment and processes, regulates photoprocessing standards and procedures. Performs sensitometric and densitometric measurements and analysis. Constructs, interprets and analyzes effects of development on emulsion density and contrast. Processes exposed material according to a rigidly prescribed technique. Determines the photographic density (resistance to passage of light) corresponding to each intensity of exposure, usually with an instrument known as a densitometer. Computes photographic characteristics from data so obtained.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in photography, physics and chemistry.
   b. Physical: Normal color discrimination.
   c. Specific: May require appropriate security clearance. Experience in photography as a hobby or job.

6. Related Service Jobs:
   - Army: Still Photographer (84B); Photographic Laboratory Specialist (84C); Process Photographer (83D)
   - Navy: Photographer's Mate (PH)
   - Air Force: Continuous Photo Processing Specialist (23350)
   - Marine Corps: Photographer (4631)
   - Coast Guard: Photo-Journalist (PA)

BOOKBINDERS AND RELATED

1. USOE Cluster: Communication and Media
2. Civilian Title: Bookbinder (977.884)
3. Military Titles: (Bookbinder)
   - Army: Offset Pressman (83F)
   - Navy: Lithographer (LI)
   - Air Force: Printing-Binding Specialist (71350)
   - Marine Corps: Duplicating Man (1521)
4. Composite Service Job Statement: Binds covers to books or pamphlets, and performs book finishing operations. Applies glue to back of sewed signatures to stiffen back of book body. Trims books to size, using powered cutting machine. Finishes book by embossing lettering or designs on cover, using heated handtools.
5. Desirable Qualifications Summary:
   - a. Academic Background: Course in printing.
   - b. Physical: Normal color discrimination.
   - c. Specific: Experience in lithography.
6. Related Service Jobs: None.

TAB 10

SERVICE UNIQUE OCCUPATIONS

The service unique occupations have been assigned a civilian title and a temporary six digit DOT code (indicated with a "T"). This temporary title and code may or may not be assigned in the Fourth Edition of the **Dictionary of Occupational Titles,** but are provided in this book to facilitate reference and indexing.

ARCHITECTURE AND ENGINEERING

1. USOE Cluster: Manufacturing

2. Civilian Title: Noise and Vibration Analyst (019.281T)

3. Military Titles: (Noise and Vibration Analyst)
Navy: Noise and Vibration Analyst (EM-4616)

4. Composite Service Job Statement: Conducts structural borne and airborne noise and vibration surveys on air boats, hydrofoils, other surface ships and submarines, by using sound level meters, octave band analyzers, graphic recorders, tape recorders, stroboscopes, and oscilloscopes to detect potentially faulty shafts, propellers, elbows and knuckles. Operates ohmmeters and ampmeters to measure electrical resistance on components of Navy ships that are under development. Verbally reports defects or potential defects to Naval Inspector of Shipbuilding.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in electrical shop, practical and shop mathematics.
b. Physical: Ability to differentiate between pitch of similar tones.
c. Specific: Special aptitude for electrical work.

6. Related Service Jobs: None.

METEOROLOGY

1. USOE Cluster: Marine Science

2. Civilian Title: Oceanographer, Assistant (025.288T)

3. Military Titles: (Oceanographer, Assistant)
Navy: Aerographer's Mate (AG)
Coast Guard: Marine Science Technician (QC: MST-01)

4. Composite Service Job Statement: Collects and records oceanographic and meteorological data and analyzes data to forecast changes in weather or sea conditions: Collects weather and oceanographic data using meteorological and oceanographic equipment and visual observation. Sketches surface weather charts, upper air charts, sea condition charts and other charts and maps to indicate weather and sea conditions. Prepares and forecasts warnings of severe and hazardous weather and sea conditions and prepares briefings concerning current and predicted environmental conditions and their effect on military operations. Performs preventative maintenance on meteorological and oceanographic equipment.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in algebra, physics and typing.
b. Physical: Normal color perception required.
c. Specific: Training or experience in meteorology, astronomy or the physical sciences.

6. Related Service Jobs:
Navy: Ocean Systems Technician (OT)
Coast Guard: Radarman (RD); Sonar Technician (ST); Quartermaster (QM); Marine Science Chemistry (MST-06)

SOCIAL SCIENCE

1. USOE Cluster: Public Service

2. Civilian Title: Intelligence Specialist (059.268T)

3. Military Titles: (Intelligence Specialist)
   - Army: Intelligence Analyst (96B); Terrain Intelligence Analyst (81Q)
   - Navy: Intelligence Specialist (IS); Sensor Interpreter (IS-6701); 101C IDS Operator/ Photo Interpreter (IS-6733)
   - Air Force: Intelligence Operations Specialist (20450)
   - Marine Corps: Intelligence Man (Air/Ground) (0231); Intelligence Assistant (0239); Intelligence Chief (0291)

4. Composite Service Job Statement: Collects, records, analyzes and disseminates tactical, strategic or technical intelligence information: Segregates and records incoming intelligence data with regard to type to facilitate comparison, study and accessibility. Prepares and analyzes information on strength, equipment, location, disposition, organization and movement of enemy forces. Assists Intelligence officers in analysis and selection of aerial bombardment targets. Compiles intelligence information to be used in preparing situation maps, charts, visual aids, briefing papers, reports and publications. Briefs and debriefs ground or aviation personnel prior to and after missions. Maintains intelligence libraries including maps, charts, documents and other items. Plans or assists superiors in planning and supervising intelligence activities of unit assigned. May examine source materials and compile terrain intelligence such as condition of travel routes over land, port facilities, and sources of water, sand, gravel, rock and timbers.

5. Desirable Qualifications Summary:
   - a. Academic Background: Course in typing and mechanical drawing.
   - b. Physical: Normal color discrimination.
   - c. Specific: Must have appropriate security clearance.

6. Related Service Jobs:
   - Army: Counterintelligence Agent (97B); Area Intelligence Specialist (97C); Military Intelligence Coordinator (97D)
   - Air Force: Radio Communications Analysis Specialist (20250)
   - Marine Corps: Counterintelligence Assistant (0211); Interrogator-Translator (Designated Language) (0251); Counterintelligence Chief (0292)

PHARMACISTS

1. USOE Cluster: Health

2. Civilian Title: Pharmacist's Assistant (074.381T)

3. Military Titles: (Pharmacist's Assistant)
   - Army: Pharmacy Specialist (91Q)
   - Navy: Pharmacy Technician (HM-8482)
   - Air Force: Pharmacy Specialist (90550)
   - Coast Guard: Hospital Corpsman (HM-05)

4. Composite Service Job Statement: Mixes and dispenses prescribed medicines and pharmaceutical preparations in absence of or under supervision of pharmacist: Compounds preparations according to prescriptions issued by medical, dental or veterinary officers. Pours, weighs, or measures dosages and grinds, heats, filters, or dissolves and mixes liquid or soluble drugs and chemicals. Procures, stores, and issues pharmaceutical materials and supplies. Maintains files and records and submits required pharmacy reports.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in algebra, chemistry, hygiene, biology and physiology.
   b. Physical: Normal color discrimination required.
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Navy: Hospital Corpsman (HM)

MEDICINE AND HEALTH

1. USOE Cluster: Health
2. Civilian Title: Medical Service Technician (079.368T)
3. Military Titles: (Medical Service Technician)
   Navy: Nuclear Submarine Medicine Technician (HM-8402); Submarine Medicine Technician (HM-8403); Advanced General Service Technician (HM-8405); Medical Service Technicians (HM-8424, 8425)
   Air Force: Medical Service Technician (90270)
   Coast Guard: Hospital Corpsman (HM-02)

4. Composite Service Job Statement: Administers medical aid to personnel aboard air and water craft, and isolated areas in absence of or under supervision of medical officer: Examines patients and diagnoses condition. Prescribes medication to treat condition of patient. Inoculates and vaccinates patients to immunize them from communicable diseases. Treats cuts and burns. Performs minor surgery and administers emergency medical care to patients during emergency situation in absence of superior. Inspects food and facilities to determine conformance to sanitary regulations. Recommends to commander necessary measures to insure sanitary conditions are maintained. Records, transcribes and files medical case histories. Prepares requisitions for supplies, services and equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, physiology, chemistry and first aid.
   b. Physical: Normal color discrimination required.
   c. Specific: Desire to help those in need.

6. Related Service Jobs:
   Army: Medical Specialist (91B); Clinical Specialist (91C)
   Navy: Hospital Corpsman (HM)
   Air Force: Physician's Assistant (91730)

MEDICINE AND HEALTH

1. USOE Cluster: Health
2. Civilian Title: Physical Therapist's Assistant (079.378T)

3. Military Titles: (Physical Therapist's Assistant)
   Army: Physical Therapy Specialist (91J)
   Navy: Physical and Occupational Therapy Technician (HM-8466)
   Air Force: Physical Therapy Specialist (91350)
   Coast Guard: Hospital Corpsman (HM)

4. Composite Service Job Statement: Assists medical or physical therapy officer in diagnostic procedures and treatment of patients. Administers physical therapy treatment such as hot and cold packs, whirlpool, paraffin bath, infrared, ultraviolet, diathermy and electrical stimulation. Gives massages for therapeutic purposes. Directs personnel and patients in therapeutic exercise programs including range of motion, joint measurement, gait training, postural exercises and other exercise routines for strength, endurance and mobilization.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology, hygiene, physiology and first aid.
   b. Physical: Normal color discrimination required (Army/Coast Guard).
   c. Specific: Experience in first aid. Desire to help those in need.

6. Related Service Jobs:
   Army: Occupational Therapy Specialist (91L)
   Navy: Hospital Corpsman (HM)
   Air Force: Occupational Therapy Specialist (91351); Orthopedic Clinic Specialist (91233)

PERSONNEL AND TRAINING ADMINISTRATION

1. USOE Cluster: Business and Office

2. Civilian Title: Senior Enlisted Advisor (166.168T)

3. Military Titles: (Senior Enlisted Advisor)
   Army: Command Sergeant Major (00Z)
   Navy: Master/Senior Chief Petty Officer of the Command (Any Rating)
   Air Force: First Sergeant (10090)
   Marine Corps: Sergeant Major/First Sergeant (9999)
   Coast Guard: Senior Enlisted Advisor (Any Rating)

4. Composite Service Job Statement: Advises commander on such matters as troop welfare, health and morale. Accompanies commander on official visits and at ceremonies. Assists commander in inspection of command facilities and personnel. Occasionally counsels enlisted personnel concerning attitude, personal problems and similar matters to elicit their cooperation and self improvement. Reviews activities of subordinate noncommissioned officers, and initiates appropriate corrective action for discrepancies noted. Occasionally assists commander in reception of visitors. May supervise clerical or administrative personnel.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs: None.

PERSONNEL AND TRAINING ADMINISTRATION

1. USOE Cluster: Business and Office
2. Civilian Title: Recruiter/Career Counselor (166.268T)
3. Military Titles: (Recruiter/Career Counselor)
   Army: Recruiter and Career Counselor (00E)
   Navy: Navy Counselor (NC); Recruiter/Career Counselor (9585, 9588, 9589)
   Air Force: Recruiter (99120)
   Marine Corps: Recruiter (8411); Career Planner (8421); Education Assistant (8231)
   Coast Guard: Recruiter (QC: RT); Career Counselor (QC: CC)

4. Composite Service Job Statement: Interviews military and civilian personnel to recruit and inform individuals on matters concerning career opportunities, incentives, rights and benefits, and advantages of military career: Assists and advises military commands in organizing and implementing an enlisted recruiting and retention program: Interviews individuals to determine their suitability for placement into specific military occupations. Occasionally lectures to civic and social groups, military dependents, school officials and religious leaders concerning military career opportunities.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in psychology, speech, writing and typing.
   b. Physical: Ability to speak clearly and distinctly.
   c. Specific: Driver's License required.

6. Related Service Jobs:
   Air Force: Career Advisory Specialist (73234)

RADIO OPERATORS

1. USOE Cluster: Communication and Media
2. Civilian Title: Electronic Intelligence Operations Specialist (193.382T)
3. Military Titles: (Electronic Intelligence Operations Specialist)
   Navy: Communications Technician Technical (CTT); Electronics Warfare Technician (EW)
   Air Force: Electronic Intelligence Operations Specialist (20550)

4. Composite Service Job Statement: Operates electronic monitoring and related equipment to detect electronic emissions: Conducts continuous search and monitoring of assigned portions of radio frequency spectrum using special search and/or monitoring equipment. Observes video presentations or listens to signal to determine primary characteristics of monitored signals. Operates cameras for photographing signals. Operates recorders to record signals. Determines azimuth from which signal originated, using direction finder procedures. Determines accurately and rapidly parameters, directional bearing and point of origin of electronic data recorded on photographic film and magnetic tape through operation of technical laboratory analysis equipment such as electronic parameter display consoles, oscilloscope, electronic counters and sorters, X-Y plotters, sonographs, visographs, brush recorders, video and audio playback units, complex viewers, visual projectors and associated analog and digital equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in basic electronics, physics and algebra.
   b. Physical: Normal color discrimination is mandatory.
   c. Specific: None.
6. Related Service Jobs:
   Air Force: Morse Systems Operator (20751)

SOCIAL AND WELFARE WORK

1. USOE Cluster: Health
2. Civilian Title: Human Relations/Drug & Alcohol Counselors (195.208T)
3. Military Titles: (Human Relations/Drug & Alcohol Counselors)
   Army: Race Relations/Equal Opportunity Specialist (00U)
   Navy: Human Resources Development Specialists (9515); Alcoholic/Drug Abuse Counselors (9518-9522)
   Air Force: Social Actions Specialist (73430)
   Marine Corps: Human Relations Instructor (8535); Drug and Alcohol Abuse Counselor/Specialist (8538)
   Coast Guard: Human Relations Specialist; Drug Abuse Counselor

4. Composite Service Job Statement: Assists social group worker in developing, organizing, and conducting programs to prevent and resolve conditions and problems relating to human relations or drug and alcohol abuse. Conducts or assists in conducting individual or group counseling sessions. Organizes and monitors data collection to identify problem issues specific to local area, and provides information or advice as necessary for local commands to deal with these problems. Confers with individuals to identify discriminatory practices. Confers with superiors to recommend remedial or corrective actions to remove such factors both on and off military installations. May establish and monitor programs to prevent and eliminate drug and alcohol abuse, and when feasible, to restore effective functioning to individuals with problems attributable to abuse of drugs and alcohol. May plan, organize and conduct training of personnel involved in human relations or drug and alcohol abuse programs. Prepares and maintains reports, case files and records of individuals counseled and/or referred to other agencies.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in psychology and sociology.
   b. Physical: No prior record of mental instability for MOS 8538 (Marine Corps).
   c. Specific: Race Relations/Equal Opportunity Specialist handles race relations and equal opportunity programs only (Army). Strong desire to help those in need.
6. Related Service Jobs: None.

MISCELLANEOUS PROFESSIONAL, TECHNICAL AND MANAGERIAL

1. USOE Cluster: Public Services
2. Civilian Title: Intelligence Clerk (199.288T)

3. Military Titles: (Intelligence Clerk)
Army: Intelligence Analyst (96B)
Navy: Intelligence Specialist (IS)
Air Force: Intelligence Operations Specialist (20450)
Marine Corps: Intelligence Man (Air/Ground) (0231); Intelligence Assistant (0239); Intelligence Chief (0291)

4. Composite Service Job Statement: Collects and analyzes intelligence information from various established sources for production of intelligence documents. Evaluates data to ascertain accuracy of data and reliability of sources. Compiles intelligence information and disseminates data through such media as situation maps, charts, briefings, reports, and publications. Maintains intelligence libraries.

5. Desirable Qualifications Summary:
  a. Academic Background: Courses in typing, English and stenography.
  b. Physical: None.
  c. Specific: Must be required to possess appropriate security clearance. High degree of clerical aptitude.

6. Related Service Jobs:
Army: Counter Intelligence Agent (97B)
Navy: Yeoman (YN)
Marine Corps: Counter Intelligence Assistant (0211); Interrogator-Translator (Designated Language) (0251)
Coast Guard: Yeoman (YN-05)

MISCELLANEOUS PROFESSIONAL, TECHNICAL AND MANAGERIAL OCCUPATIONS

1. USOE Cluster: Public Service

2. Civilian Title: Aerospace Physiological Technician (199.782T)

3. Military Titles: (Aerospace Physiological Technician)
Navy: Aerospace Physiology Technician (HM-8409)
Air Force: Physiological Training Specialist (91150)
Coast Guard: Hospital Corpsman (HM-01)

4. Composite Service Job Statement: Operates physiological training devices, such as pressure suits, pressure chamber, para-sail equipment and ejection seats, that simulate flying conditions, to indoctrinate flying personnel to physical and physiological stresses encountered in flight: Interviews trainees to obtain physiological and medical histories to detect evidence of disqualifying conditions, prior to simulated flight. Moves levers, turns knobs, and presses buttons on control panel to regulate gas and air flow, temperature, and barometric pressure in pressure chamber to simulate flying conditions at varying altitudes and speeds. Operates altitude pressure suit control console which adjusts pressure inside flying suits and helmets. Operates para-sail training equipment such as tow-reel, tow-truck, radio equipment and meteorological devices. Adjusts seat, harness and headrest of ejection seat in ejection tower for safety of personnel. Places ammunition in catapult chamber to load catapult for firing. Fires catapult that ejects seat to simulate ejection from aircraft.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in biology and chemistry.
   b. Physical: None.
   c. Specific: None.

5. Related Service Jobs:
   Navy: Hospital Corpsman (HM)

STENOGRAPHY, TYPING, FILING AND RELATED

1. USOE Cluster: Business and Office

2. Civilian Title: Flight Operations Specialist (209.388T)

3. Military Titles: (Flight Operations Specialist)
   Army: Flight Operations Coordinator (71P)
   Navy: Air Controlman (AC)
   Air Force: Air Operations Specialist (27150)
   Marine Corps: Aviation Operations Man (7041)

4. Composite Service Job Statement: Maintains aviation operations files and records and prepares and types reports, orders, and schedules pertaining to aviation operations and aviation safety: Maintains flight planning displays to include airfield diagram, status of navigational aids, map of local flying area, special use airspace, and crash grid chart. Maintains and issues flying regulations and pilot's and flight crew's information file. Maintains files of extended flight and navigational information such as weight and balance date, cross-country kits, navigational publications, radio and landing facility charts, flight information manuals, maps, and other pertinent guides and notices. Compiles, prepares and distributes correspondence such as aviation operations reports, aviation safety reports and flight schedules. Assists flight line personnel in assigning crew and passengers to aircraft and assists aviators in preparing flight plans, processes flight plans and arrival reports for transmission to flight and air traffic control centers.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in physics, public speaking and electric shop.
   b. Physical: Normal color discrimination.
   c. Specific: May be required to possess appropriate security clearance. Ability to remain calm in times of stress.

6. Related Service Jobs:
   Air Force: Command and Control Specialist (27450)

PRODUCTION CLERKS

1. USOE Cluster: Business and Office

2. Civilian Title: Maintenance Data Analyst (221.368T)

3. Military Titles: (Maintenance Data Analyst)
   Navy: 3-M System Data Analyst (AZ-6313); 3-M System Coordinator (9512); 3-M System Data Analyst (9513)

Air Force:	Maintenance Analyst Specialist (39150); Maintenance Scheduling Specialist (43330)
Marine Corps:	Aircraft Maintenance Data Analysis Technician (6083)

4. Composite Service Job Statement: Prepares schedules for preventive maintenance of equipment to insure uninterrupted operation of equipment: Reviews maintenance schedule to determine preventive maintenance to be performed on equipment. Compares maintenance and manhour data against monthly maintenance plans, workload estimates, and standards. Calculates amount of manpower required to perform work. Notifies superiors of maintenance to be performed. Identifies and assists superiors in analysis of materiel deficiencies, high manhour action areas, and trends and deviations from schedules and standards. Prepares inspection, tests, repair, modification, alignment, serve and load schedules for aircraft, missiles and machinery. Maintains maintenance index file for individual equipment maintenance.

5. Desirable Qualifications Summary:

a. Academic Background:	Course in algebra, typing and office machines.
b. Physical:	None.
c. Specific:	Ability to perform detailed and repetitive work.

6. Related Service Jobs:

Navy:	Aviation Maintenance Administrationman (AZ)
Air Force:	Programs and Work Control Specialist (55530); Management Analysis Specialist (69150); Communications Electronics Programs Maintenance Specialist (29630)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster:	Communication and Media
2. Civilian Title:	Command and Control Specialist (235.862T)
3. Military Titles:	(Command and Control Specialist)
Air Force:	Command and Control Specialist (27450)

4. Composite Service Job Statement: Operates and monitors communication console to receive and relay command and control information or instructions: Observes signal light on communication console and presses switch to open or close communication channel. Receives communiques concerning such items as unknown aircraft, deployment of equipment and troops, or emergency situation. Records message and notifies appropriate personnel concerning communique following manual procedures, or presses switch to facilitate direct communication between originator and appropriate action addressee. Relays information to originating source or other individuals to initiate action to be taken.

5. Desirable Qualifications Summary:

a. Academic Background:	Courses in business arithmetic.
b. Physical:	Mental and emotional stability. Ability to speak clearly and distinctly.
c. Specific:	Must be eligible to receive appropriate security clearance.

6. Related Service Jobs:

Army:	ATC Approach Control/Enroute Specialist (93K); Flight Operations Coordinator (71P)
Air Force:	Air Operations Specialist (27150)

INFORMATION AND MESSAGE DISTRIBUTION

1. USOE Cluster: Communication and Media
2. Civilian Title: Operations and Intelligence Assistant (239.368T)
3. Military Titles: (Operations and Intelligence Assistant)
   Army: Air Defense Artillery (ADA) Operations and Intelligence Assistant (16H); Lance/Honest John Operations/Fire Direction Assistant (15J)

4. Composite Service Job Statement: Collects, consolidates, and evaluates air defense intelligence information received from ground observers, radar sections and other supportive units and prepares and revises operations and situation maps: Communicates with intelligence personnel from radar, ground observation and other supportive units to collect air defense information using field telephone and radio-telephone equipment, and plots early warning information on situation board. Prepares and revises operations and situation maps to indicate location, strength, and tactical employment of friendly and hostile units. Alerts personnel of firing batteries as to grid locations of incoming targets using radio.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs: None.

ATTENDANTS, HOSPITALS, MORGUES AND RELATED HEALTH SERVICES

1. USOE Cluster: Personal Services
2. Civilian Title: Graves Registration Specialist (355.887T)
3. Military Titles: (Graves Registration Specialist)
   Army: Memorial Activities Specialist (57F)
   Marine Corps: Graves Registration Specialist (9051)

4. Composite Service Job Statement: Collects and identifies remains of deceased military personnel, both buried and unburied, and evacuates bodies to rear area for burial activities. Searches battlefields and other areas for unburied dead and for isolated and unmarked graves. Exhumes bodies of buried dead. Examines immediate area for identification items, such as dog tags, watches and similar personal items, and transports remains and personal effects to rear area. Takes fingerprints, skeletal x-rays, and prepares teeth chart to aid in identifying remains. Examines remains, removes personal effects, and lists property inventory on proper forms. Records identity of remains including name, unit, place, and cause and date of death. Indicates location of temporary graves on map, sketch, or overlay for purposes of future recovery.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   c. Specific: None.
   b. Physical: None.
6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Field Artillery Senior Sergeant (378.132T)

3. Military Titles: (Field Artillery Senior Sergeant)
Army: Field Artillery Cannon Senior Sergeant (13Z)
Marine Corps: Field Artillery Chief (0891); Field Artillery Operations Chief (0893); Observer Liaison Chief (0894)

4. Composite Service Job Statement: Supervises and coordinates activities of personnel engaged in direction of fire, target acquisition, operation of field artillery, radar equipment, survey and fire direction duties incident to control of artillery fire and naval gunfire: Prepares field orders, training and status reports, and intelligence reports. Advises superior on assignments, promotions and other matters related to troop welfare. Schedules unit training. Conducts conferences on unit drill, military courtesy and similar subjects. Accompanies superior on inspection tour of artillery units, and prepares notes of discrepancies found. Initiates corrective action in superior's name to correct discrepancies.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Combat Surveillance and Target Acquisition NonCommissioned Officer (378.137T)

3. Military Titles: (Combat Surveillance and Target Acquisition NonCommissioned Officer)
Army: Combat Surveillance and Target Acquisition NCO (17Z)

4. Composite Service Job Statement: Supervises and coordinates activities of personnel engaged in providing combat surveillance and target acquisition information, such as sound, flash, or survey, in support of field artillery units: Confers with firing battery personnel to coordinate target acquisition and combat surveillance activities and to provide liaison between target acquisition or combat surveillance units and artillery units. Advises commanding officer on matters related to troop welfare, including personnel assignments, discipline and training needs. Directs personnel in preparing charts, maps and overlays.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Operations Specialist (OS)
   Marine Corps: Observer Liaison Man (0861)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Services
2. Civilian Title: Infantry Unit Leader (378.138T)
3. Military Titles: (Infantry Unit Leader)
   Army: Infantry Senior Sergeant (11G)
   Marine Corps: Infantry Unit Leader (0369)

4. Composite Service Job Statement: Supervises, or assists in supervision of personnel during training, functioning, and tactical employment of infantry unit: Directs personnel preparing weapons and equipment for movement and combat. Directs personnel in establishment of unit command post and assists in its operation. Assists superior in formulating plans of action and in leading an infantry unit. Assists superior in coordinating unit's fire and movement with that of other units and directs fire of support weapons. Inspects unit weapons and equipment to determine functioning condition and initiates action to correct deficiencies. Directs personnel in preparation of unit correspondence, reports, schedules and rosters. Directs personnel in distribution of ammunition, rations and other supplies.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.
6. Related Service Jobs:
   Army: Light Weapons Infantryman (11B); Infantry Indirect Fire Crewman (11C); Infantry Operations and Intelligence Specialist (11F)
   Marine Corps: Rifleman (0311); Machine Gunner (0331); Mortar Man (0341); Antitank Assault Man (0351)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Marksmanship Instructor (378.228T)
3. Military Titles: (Marksmanship Instructor)
   Army: Light Weapons Infantryman (11B)
   Navy: Small Arms Marksmanship Instructor (GM-0811)
   Air Force: Small Arms Specialist (75350)
   Marine Corps: Marksmanship Instructor (8531)
   Coast Guard: Small Arms Marksmanship Instructor (QC: S-I)

4. Composite Service Job Statement: Instructs personnel in rifle, pistol and shotgun marksmanship: Explains and demonstrates weapon safety, firing positions, sight picture and alignment, breath and trigger control and other fundamentals and techniques of marksmanship. Instructs personnel in nomenclature, field stripping operation, stoppages and immediate action of small arms weapons. Explains range safety regulations. Inspects small arms weapons to be fired to ensure that weapons are clean, properly lubricated, and in proper operating condition. Observes personnel during firing to ensure that safety procedures are being followed. Offers corrective advice to personnel to improve marksmanship and confidence and to aid in correcting weapon malfunctions. Scores field firing to include target detection, range estimation, firing positions and other marksmanship principles.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: For Coast Guard: Must be certified as a National Rifle Association Instructor and be qualified as Coast Guard Distinguished marksman or National Rifle Association master classification in either rifle or pistol.

6. Related Service Jobs:
   Army: Infantry Indirect Fire Crewman (11C); Armor Reconnaissance Specialist (11D); Armor Crewman (11E)
   Navy: Aviation Ordnanceman (AO); Gunner's Mate (Guns) (GMG); Gunner's Mate (Missiles) (GMM)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Recruit Instructor (378.228T)

3. Military Titles: (Recruit Instructor)
   Army: Any Individual Awarded SQI "X" as 5th digit of Military Occupational Specialty
   Navy: Special Instructor (9502)
   Air Force: Military Training Instructor (99128)
   Marine Corps: Drill Instructor (8511)
   Coast Guard: Instructor (ST)

4. Composite Service Job Statement: Conducts recruit training for newly recruited personnel, in accordance with training schedules and orders: Orients recruits in fundamentals of service life and development in recruit of discipline, physical fitness, pride and love of service and country. Trains recruits in close order drill. Instructs recruits in nomenclature, disassembly, assembly and functioning of small arms; and assists in marksmanship instruction. Instructs recruits in general orders for sentinels, interior guard duty, personal hygiene, first aid, military bearing and neatness, and care of clothing and equipment. Lectures on history and tradition, customs of the service, military courtesy and regulations. Evaluates recruit performance in all facets of training. Assists superior in conduct of parades and reviews; maintains records and prepares reports. May instruct recruits in hand-to-hand combat and bayonet drill.

5. Desirable Qualifications Summary:
    a. Academic Background: None.
    b. Physical: None.
    c. Specific: Completion of Drill Sergeant/Instructor School is mandatory. Eligibility varies by grade for each service. High degree of leadership aptitude.
6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Survival Specialist (378.228T)
3. Military Titles: (Survival Specialist)
    Navy: Survival, Evasion, Resistance, and Escape (SERE) Instructor (9505)
    Air Force: Survival Specialist (92150)

4. Composite Service Job Statement: Instructs personnel in survival and rescue techniques and procedures and on how to evade, escape, and resist enemy interrogation, exploitation, and political indoctrination as a Prisoner of War: Demonstrates methods of constructing emergency shelters, building animal or fish traps and snares, improvising clothing and equipment, and recognizing, procuring, preparing and preserving water and various plant and animal life. Demonstrates use of life support and recovery equipment, basic survival kit items and application of survival medicine. Instructs personnel in use of support and recovery equipment and procedures for signalling and vectoring search vehicles. Discusses and demonstrates principles and techniques of escape and evasion, penetration of barriers, camouflage, and organization of Prisoner of War groups.

5. Desirable Qualifications Summary:
    a. Academic Background: Courses in biology, anatomy, physiology and speech is desirable.
    b. Physical: None.
    c. Specific: None.
6. Related Service Jobs:
    Army: Ranger and Special Forces qualified personnel.
    Air Force: Pararescue/Recovery Specialist (92350)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Counterintelligence Agent (378.267T)
3. Military Titles: (Counterintelligence Agent)
    Army: Counterintelligence Agent (97B)
    Air Force: Special Investigations and Counterintelligence Specialist (82130)
    Marine Corps: Counterintelligence Assistant (0211); Counterintelligence Chief (0292)

4. Composite Service Job Statement: Collects, evaluates and disseminates counterintelligence information. Investigates activities of enemy agents, collaborationists or installation personnel known or suspected to have knowledge or record of counterintelligence information. Interrogates suspects, informants, and witnesses while conducting investigations to obtain information pertaining to activities, such as actual, attempted or suspected treason, sedition, subversion, disaffection, espionage and sabotage. Conducts security surveys and inspections of installation, activities and personnel. Evaluates information obtained and recommends remedial action. Prepares administrative forms and correspondence incident to granting security clearances. Conducts security lectures. Directs personnel engaged in general security indoctrination for military personnel or civilian employees. May plan, organize and coordinate activities of counterintelligence agents and teams.

5. Desirable Qualifications Summary:
   a. Academic Background: Foreign language required (Marine Corps).
   b. Physical: None.
   c. Specific: Security clearance required. High school diploma mandatory (Marine Corps).

6. Related Service Jobs:
   Army: Intelligence Analyst (96B); Area Intelligence Specialist (97C)
   Navy: Intelligence Specialist (IS); Communications Technician (CT)
   Marine Corps: Intelligence Man (Air/Ground) (0231); Intelligence Assistant (0239); Interrogator-Translator (Designated Language) (0251); Criminal Investigator (5821)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Target Aircraft Technician (378.281T)

3. Military Titles: (Target Aircraft Technician)
   Army: Target Aircraft Crewman (00G)
   Navy: Drone Electronics Technician (AT-6665)

4. Composite Service Job Statement: Services, repairs and overhauls drone target aircraft and aircraft engines: Repairs, replaces, and assembles parts, such as wings, cowlings, stabilizers and propeller assembly, using power and handtools to rebuild or replace airframe or airframe components. Replaces worn or damaged parts, such as spark plugs, parachute and battery, using handtools. Tests aircraft engine operation. Places aircraft on launching device, including catapult launcher. Installs JATO or other launching propellant. Starts aircraft, using portable starting equipment. Adjusts carburetor to regulate fuel mixture to attain optimum engine performance. Performs preflight checkout of target aircraft. Inspects launching device prior to each launch. Diagnoses electronic malfunctions. Repairs and replaces defective parts and wiring.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
Navy: Aviation Electronics Technician (AT); Aviation Electrician's Mate (AE)
Air Force: Aircraft Maintenance Specialist (43151)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Artillery/Naval Gunfire Observer (378.367T)
3. Military Titles: (Artillery/Naval Gunfire Observer)
Marine Corps: Artillery Scout Observer (0846); Shore Fire Control Party Man (0849); Observer Liaison Man (0861)

4. Composite Service Job Statement: Observes enemy and simulated enemy positions to coordinate and adjust artillery or naval gunfire during combat or training operations. Selects sites for observation posts. Sets up observation and communication instruments and equipment. Informs infantry, artillery or naval gunfire ships of enemy activity, location of friendly troops and other pertinent intelligence data, using radio. Confers with artillery and gunship personnel to request and adjust artillery and naval gunfire. Confers with fire direction center personnel to report gunfire results based on knowledge of characteristics, capabilities and limitations of artillery, mortar, rocket and naval gunfire, using radio.

5. Desirable Qualifications Summary:
a. Academic Background: None.
b. Physical: None.
c. Specific: None.

6. Related Service Jobs:
Army: Infantry Indirect Fire Crewman (11C)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Services
2. Civilian Title: Disaster/Damage Control Specialist (378.367T)
3. Military Titles: (Disaster/Damage Control Specialist)
Army: Chemical Staff Specialist (54E)
Navy: Damage Control Specialist (HT-4961); Repair Party/Unit Leader (9555); Radiological Control Monitor (9591); Disaster Control Specialist (9598)
Air Force: Disaster Preparedness Specialist (24250)
Marine Corps: Nuclear, Biological and Chemical Defense Specialist (5711)
Coast Guard: Nuclear, Biological and Chemical Warfare Defense Specialist (QC: F-1); Damage Controlman (DC)

4. Composite Service Job Statement: Assists disaster preparedness officer in preparation and monitoring of disaster preparedness plans and procedures. Inspects protective equipment to determine operational read-

iness. Directs personnel in repair of equipment. Directs location, marking, and stocking of radiation shelters. Confers with superior and Civil Defense personnel to provide information on radiological monitoring and survey; biological and chemical weapons and effects; protective measures and decontamination methods; and biological, chemical, and nuclear accident control to assist superior in development of local emergency plans. Tests suspected area to detect presence of toxic agents using chemical detection equipment and identifies type of chemical agent. Tests areas for radioactive contamination using radiac instruments. Collects biological samples and tests and identifies biological agents. Plots area of contamination on map. Informs superior of contaminated area and type of contamination. Recommends to superior method to be followed to decontaminate personnel, equipment and area. Informs superior when decontamination has been completed. Conducts training in methods and techniques of defense during chemical, biological and nuclear warfare.

5. Desirable Qualifications Summary:
   a. Academic Background: Algebra, trigonometry, chemistry and physics.
   b. Physical: Normal color discrimination.
   c. Specific: Ability to remain calm under stress.

6. Related Service Jobs:
   Army: Decontamination Specialist (54B); Military Police (95B)
   Navy: Hull Maintenance Technician (HT)
   Air Force: Safety Specialist (24150)
   Coast Guard: Defense Specialist (QC: F-1)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Reconnaissance Crewmember (378.367T)
3. Military Titles: Reconnaissance Crewmember
   Army: Ranger or Special Forces Qualified Personnel
   Navy: Combatant Swimmer, Seal Team (5327)
   Marine Corps: Reconnaissance Man (0321); Reconnaissance Man, Parachute Qualified (8652); Reconnaissance Man, SCUBA Qualified (8653); Reconnaissance Man, Parachute and SCUBA Qualified (8654)

4. Composite Service Job Statement: Observes, locates, and reports enemy force movements and terrain characteristics from observation point: Maintains surveillance from observation post to observe such places as bridges, airfields, roads, and rivers to detect enemy movements. Observes beach areas to determine possible amphibious landing site. Requests artillery, air and naval gunfire to destroy enemy forces, using radio. Fires weapons such as pistol, rifle, and grenade launcher. Studies maps and aerial photographs to locate enemy force.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs:
Army: Armored Reconnaissance Specialist (11D)
Air Force: Combat Security Policeman (99135) (Special Duty Identifier)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Field Artillery Operations Specialist (378.368T)

3. Military Titles: (Field Artillery Operations Specialist)
Army: Field Artillery Cannon Operations/Fire Direction Assistant (13E)
Marine Corps: Field Artillery Operations Man (0848)

4. Composite Service Job Statement: Collects and evaluates enemy weapons fire data to determine enemy location for artillery cannon fire using chronograph, gun direction computer and other fire direction equipment: Observes enemy fire using transit and records angle. Measures velocity of projectiles fired from enemy weapon using chronograph. Determines direction of enemy weapons using gun direction computer. Collects data and constructs firing chart. Plots target location. Computes azimuth, elevation and other firing data. Transmits firing data to artillery unit personnel using radio. Transmits artillery fire adjustments data to artillery unit personnel when necessary.

5. Desirable Qualifications Summary:
a. Academic Background: None
b. Physical: None
c. Specific: None

6. Related Service Jobs: None

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Flash Ranging Crewmember (378.368T)

3. Military Titles: (Flash Ranging Crewmember)
Army: Flash Ranging Crewman (17D)
Marine Corps: Shore Fire Control Party Man (0849); Observer Liaison Man (0861)

4. Composite Service Job Statement: Operates flash ranging equipment in observation post to measure range and horizontal and vertical angles to artillery flashes and projectile bursts: Selects location site for observation post. Performs traverse survey to establish coordinates at observation post. Orients and calibrates flash ranging instruments. Observes enemy flashes and projectile bursts, using flash ranging instrument and records horizontal and vertical angles to blasts. Computes flash ranging data to determine distance and direction of enemy emplacement. Confers with artillery personnel to report location of enemy forces and effectiveness of fire.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Defensive Fire Control Systems Operator (378.382T)

3. Military Titles: (Defensive Fire Control Systems Operator)
   Air Force: Defensive Fire Control Systems Operator (32750)

4. Composite Service Job Statement: Operates inflight fire control system to detect intrusion of enemy aerial vehicles and to evade or destroy airborne threat during combat or training situations. Observes radar scope to detect blips indicative of aerial vehicles. Identifies vehicles following manual procedures. Notifies superior of presence of enemy aircraft, missile, or other aerial vehicle. Presses buttons as directed by superior to activate automatic tracking system and to automatically fire weapons and infrared missile launcher to destroy enemy or simulated threat. Diagnoses equipment malfunction. Replaces defective parts and wiring and adjusts mechanical parts.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in mathematics and physics.
   b. Physical: Normal color discrimination.
   c. Specific: May be required to possess appropriate security clearance.

6. Related Service Jobs:
   Navy: DECM/Plane Captain KA-3B (8255)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: REDEYE Gunner (378.382T)

3. Military Titles: (REDEYE Gunner)
   Army: Any Military Occupational Specialty Authorized the Additional Skill Indifier of R6, REDEYE Gunner
   Marine Corps: REDEYE Gunner (7212)

4. Composite Service Job Statement: Operates and fires REDEYE Guided Missile Weapon System to destroy low flying enemy aircraft: Observes low flying enemy aircraft or receives radar information concerning low flying aircraft. Visually identifies aircraft detected. Evaluates possible or real enemy threat, and establishes priority of engagement if necessary. Notifies superior of aircraft. Presses switches upon order to automatically activate tracking system and fires missile at target. Confers with superior, using radio to transmit in-

formation concerning results of firing. Selects appropriate primary and alternate positions for REDEYE employment considering capabilities and limitations of weapon, friendly situation in area to be defended, and probable aircraft tactics and avenues of attack.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: Must be eligible to receive appropriate security clearance.

6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Infantry Operations Specialist (378.388T)

3. Military Titles: (Infantry Operations Specialist)
   Army: Infantry Operations and Intelligence Specialist (11F)
   Marine Corps: Infantry Operations Specialist (8711)

4. Composite Service Job Statement: Collects, evaluates, and prepares operation and intelligence information at battalion or higher headquarters for combined arms combat operations: Assists superior in establishing and maintaining unit operations section when deployed in field. Prepares operation maps, and maintains situation maps, indicating location, strength, tactical deployment and emplacements of friendly and enemy units. Receives and records on situation maps pertinent information obtained from intelligence and reconnaissance reports, using conventional signs and symbols. Prepares and maintains operations journal which contains briefs of important written and oral messages received and sent, notations of periodic reports, orders, and similar matters that pertain to section or unit. Assists superior in preparing war diaries and special reports upon completion of operation. Prepares orders, training orders, memorandums, schedules, status and periodic reports.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Army: Infantryman (11B); Infantry Senior Sergeant (11G)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Smoke and Flame Specialist (378.782T)

3. Military Titles: (Smoke and Flame Specialist)
   Army: Smoke and Flame Specialist (54C)

4. Composite Service Job Statement: Operates and controls smoke or flame and support equipment, such as self-propelled flamethrowers, smoke generators, and radio equipment, to provide smoke screen or flame support for military forces during combat or training operations: Observes terrain and weather conditions to determine location for smoke generators and other smoke munitions. Starts smoke generator to form smoke screen. Observes smoke screen to insure proper screening without interference to mission of adjacent units. Adjusts smoke generators as needed to obtain optimum quality and quantity of screening smoke. Assists in loading flamethrower and on-vehicle weapons. Moves firing controls and fire control instruments to operate and fire vehicular mounted weapons and self-propelled flamethrowers. Moves driver controls to start, stop, and steer self-propelled flamethrower vehicles. Receives and stores on-vehicle materials, such as rations, fuel and ammunition. Confers with squad or unit personnel to report observance of targets or other combat information, using visual signal, radio or telephone, in conformance with terminology and security procedures. Performs preventative maintenance and repairs on equipment and weapons, such as flamethrowers, radio equipment, and smoke generators.

5. Desirable Qualifications Summary:

a. Academic Background:	None
b. Physical:	Normal color discrimination.
c. Specific:	None.

6. Related Service Jobs:

Army:	Chemical Staff Specialist (54E)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster:	Public Service
2. Civilian Title:	Antitank Assault Gunner (378.884T)
3. Military Titles:	(Antitank Assault Gunner)
Army:	Infantryman (11B)
Marine Corps:	Antitank Assaultman (0351)

4. Composite Service Job Statement: Deploys, fires, and maintains antitank and assault weapons such as recoilless rifle, portable flame thrower and multishot portable flame weapon: Prepares weapons and equipment for movement. Designates location for and positions weapons. Computes firing data, loads and aims weapons preparatory to firing. Fires antitank and assault weapons at fixed and moving targets. Assists superior in leading antitank or assault units to assault fortified positions during combat or training operations, furnishing support fire for other infantry units. Assists superior in coordinating unit's fire and movement with that of unit supported, adjacent units, and other support units. May direct fire of other infantry crew-served weapons. Constructs and camouflages positions and ground obstacles for antitank and assault squads. Employs, arms, disarms, and removes mines used for local security and antitank defense. Protects weapons and equipment against chemical warfare agents and decontaminates weapons and equipment when exposed to chemical attack. Performs minor repairs to weapons and equipment.

5. Desirable Qualifications Summary:

a. Academic Background:	None.
b. Physical:	None.
c. Specific:	None.

6. Related Service Jobs:
Army: Infantry Indirect Fire Crewman (11C)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Camouflage Specialist (378.884T)
3. Military Titles: (Camouflage Specialist)
Army: Camouflage Specialist (51E)

4. Composite Service Job Statement: Camouflages field equipment and installations, using items such as nets, paint, brush and grass: Observes field areas to determine types of camouflage required. Prepares nets using garnishes. Drapes and covers field equipment and activities with nets, employing rigging techniques. Camouflages equipment and structures using paint and natural materials such as grass and brush. Fabricates camouflage materials and decoys in shop using handtools. Erects decoys, runs misleading tracks to decoys, and simulates activity to confuse enemy forces.

5. Desirable Qualifications Summary:
    a. Academic Background: None.
    b. Physical: Normal color discrimination.
    c. Specific: Must know how form, shadow, texture, color, movement, tone and shine affect identification of objects from air and on ground.

6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service
2. Civilian Title: Combat Rifle Crewmember (378.884T)
3. Military Titles: (Combat Rifle Crewmember)
Army: Light Weapons Infantryman (11B)
Air Force: Combat Security Policeman (99135)
Marine Corps: Rifleman (0311)

4. Composite Service Job Statement: Engages with members of enemy ground force to destroy or capture opposing forces, using rifle, during combat or training operations, serving as member of infantry unit. Builds field fortifications, including wire entanglements and road blocks, using handtools, barbed wire and lumber. Camouflages combat equipment and weapons, using items such as paint, nets, leaves and brush. Places and arms antitank/antipersonnel mines in mine field. Decontaminates weapons and equipment when exposed to chemical or nuclear contamination. Observes compass, aerial photographs and maps to determine field position for troop movements. Examines equipment and weapons to detect malfunctions. Repairs weapons and equipment, using items such as handtools, oil and rags. Fires machine guns, grenade launchers and rifles to inflict casualties on members of enemy force.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Army: Infantry Indirect Fire Crewman (11C)
   Marine Corps: Machine Gunner (0331)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Field Artillery Crewmember (378.884T)

3. Military Titles: (Field Artillery Crewmember)
   Army: Field Artillery Crewman (13B)
   Marine Corps: Field Artillery Batteryman (0811)

4. Composite Service Job Statement: Loads and fires field artillery gun or howitzer during combat or training situations: Selects firing site and positions cannon according to orders. Camouflages position if necessary. Loads ammunition into breech of cannon. Fires cannon upon order. Realigns cannon position and repeats cannon firing procedures to satisfy mission requirements on target. Inspects weapon and replaces worn or unserviceable parts such as gears, springs and ejectors. Cleans and lubricates hubs, wheels and similar assemblies.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: May be required to possess appropriate security clearance.

6. Related Service Jobs:
   Marine Corps: Field Artillery Nuclear Projectileman (0812)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Infantry Indirect Fire Crewmember (378.884T)

3. Military Titles: (Infantry Indirect Fire Crewmember)
   Army: Infantry Indirect Fire Crewman (11C)
   Marine Corps: Mortar Man (0341)

4. Composite Service Job Statement: Positions and fires mortar during combat or training operations: Selects site and positions mortar employing concealment and camouflage procedures to prevent detection. Studies maps and aerial photographs to locate friendly and enemy positions. Confers with unit personnel to provide

information concerning enemy location troop movement and similar tactical information. Drops ammunition into mortar to discharge and fire ammunition at target. Readjusts mortar position to obtain effective hit on target based on personal observation or radio report from observers.

5. Desirable Qualifications Summary:
  a. Academic Background: None.
  b. Physical: None.
  c. Specific: None.

6. Related Service Jobs:
  Army: Infantryman (11B)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Infantry Weapons Crewmember (378.884T)

3. Military Titles: (Infantry Weapons Crewmember)
  Army: Light Weapons Infantryman (11B)
  Marine Corps: Machine Gunner (0331)

4. Composite Service Job Statement: Deploys, fires and maintains crew served weapons such as recoilless rifle, tank destroying missile system, or light machine guns, during training or combat mission: Disassembles, cleans and loads weapons and equipment for movement and combat. Designates location of gun, sector of fire, and targets. Computes firing data, aims, and fires weapons at fixed and moving targets employing direct fire techniques. Assists superior in leading personnel in combat missions, and during maneuvers or tactical problems. Fires weapons at enemy forces to support other infantry units. Assists superior in coordinating unit's fire and movement with that of other units. Constructs and camouflages weapon positions and ground obstacles. Employs and arms, or disarms and removes mines used for local security. Protects weapons and equipment against chemical warfare agents. Decontaminates weapons and equipment when exposed to chemical attack. Performs preventive maintenance, routine tests, and authorized minor repairs to weapons and equipment.

5. Desirable Qualifications Summary:
  a. Academic Background: None.
  b. Physical: None.
  c. Specific: None.

6. Related Service Jobs:
  Army: Infantry Indirect Fire Crewman (11C); Infantry Operations and Intelligence Specialist (11F)
  Air Force: Combat Security Policeman (99135)
  Marine Corps: Rifleman (0311); Reconnaissance Man (0321); Antitank Assault Man (0351)

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Light Air Defense Artillery Crewmember (378.884T)

3. Military Titles: (Light Air Defense Artillery Crewmember)
Army: Light Air Defense Artillery Crewman (16F)

4. Composite Service Job Statement: Fires variety of light air defense artillery automatic weapons or machineguns during combat or training situation serving as member of light air defense artillery unit. Removes ammunition from truck and stacks ammunition in storage pit. Positions light air defense artillery automatic weapons and machine guns. Camouflages ammunition, weapons, and equipment using nets, paint, and similar items. Lays wire to establish field communications. Loads ammunition in breech of weapon or machinegun and fires weapon or machinegun on order at aerial and surface targets during combat or training situation.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Vulcan Crewmember (378.884T)

3. Military Titles: (Vulcan Crewmember)
Army: Vulcan Crewman (16R)

4. Composite Service Job Statement: Fires vehicle mounted Vulcan artillery system during combat and training operations: Drives vehicle to move Vulcan system into firing position. Lifts and carries ammunition from vehicle storage to Vulcan firing platform. Inserts ammunition into firing tube to load Vulcan for firing. Presses button to engage firing mechanism that automatically fires system. Operates support equipment, such as power generators, fire control devices and radios. Repairs and maintains support equipment, using handtools, power tools and measuring instruments, to insure optimum operational efficiency.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Must have appropriate security clearance.
   c. Specific: None.

6. Related Service Jobs: None.

MILITARY SERVICE (NOT ELSEWHERE CLASSIFIED)

1. USOE Cluster: Public Service

2. Civilian Title: Combat Surveillance and Target Acquisition Crewmember (378.887T)

3. Military Titles: (Combat Surveillance and Target Acquisition Crewmember)
Army: Combat Surveillance and Target Acquisition Crewman (17A)

4. Composite Service Job Statement: Assists crewmembers of sound, flash and other target acquisition units in detecting sound or flash of enemy artillery. Assists crewmembers to emplace sound, flash or other target acquisition equipment. Plots sound or flash data on maps. Assists personnel in operating searchlights. Lays wire to establish field communications. Cleans and lubricates vehicles and equipment.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
Marine Corps: Artillery Scout Observer (0846)

MECHANICS AND MACHINERY REPAIRMEN

1. USOE Cluster: Manufacturing

2. Civilian Title: Aviation Support Equipment Repairer (639.281T)

3. Military Titles: (Aviation Support Equipment Repairer)
Navy: Aviation Support Equipment Technician (AS)
Air Force: Aerospace Ground Equipment Repairman (42153)
Marine Corps: Aircraft Maintenance Ground Support Equipment Mechanic (6072); Aircraft Maintenance Ground Support Equipment Hydraulic/Pneumatic/Structures Mechanic (6076); Aircraft Maintenance Ground Support Equipment Chief (6079)
Coast Guard: Machinery Technician (MK)

4. Composite Service Job Statement: Inspects, maintains, repairs, and modifies aircraft ground equipment such as M-G sets, air compressors and test stands. Conducts periodic and special inspections, using test equipment, to detect malfunctions. Tests and operates equipment for output, leakage, and operation in accordance with technical orders to determine serviceability. Disassembles and assembles malfunctioning accessories and components of aerospace ground equipment such as motor and engine driven generator sets, air compressors, hydraulic-pneumatic sets, air conditioners, heaters, exhaust and cooling equipment, and test stands. Replaces worn bearings, bushings, shafts, end plates, brushes, springs, coils, armatures, pushrods, valves, exhaust manifolds, tubing, hoses, and defective wiring. Repairs, adjusts, and operates small gas turbine engines.

5. Desirable Qualifications Summary:
   a. Academic Background: None.

b. Physical: Normal color discrimination.
c. Specific: None.

6. Related Service Jobs:
Army: Aircraft Electrician (68F)
Air Force: Aircraft Electrical Repairman (42350)
Coast Guard: Aviation Machinist Mate (AD)

FABRICATION AND REPAIR OF PLASTICS, SYNTHETICS, RUBBER AND RELATED PRODUCTS

1. USOE Cluster: Manufacturing

2. Civilian Title: Rubber and Plastics Worker (759.782T)

3. Military Titles: (Rubber and Plastics Worker)
Navy: Rubber and Plastics Worker (9581)

4. Composite Service Job Statement: Inspects, repairs, replaces and modifies sound proofing and sweat proofing equipment aboard dry docked or moored submarines. Conducts visual and scheduled inspections of submarines to detect hazards or malfunctions. Replaces worn or defective rubber and plastic items such as grommets. Sprays sound proofing material on internal submarine walls using compressor. Affixes neoprene sheets to submarine walls. Shapes and finishes plastic and rubber items using such equipment as hand saws, sanders, grinders or drill presses. Occasionally directs helpers in their activities.

5. Desirable Qualifications Summary:
a. Academic Background: Courses in chemistry and physics.
b. Physical: None.
c. Specific: Ability to do detailed mechanical work.

6. Related Service Jobs:
Air Force: Airframe Repair Specialist (53450); Fabric and Rubber Products Specialist (58250)

FABRICATION, INSTALLATION AND REPAIR OF ELECTRICAL AND ELECTRONICS PRODUCTS

1. USOE Cluster: Manufacturing

2. Civilian Title: Missile Facilities Repairer (828.281T)

3. Military Titles: (Missile Facilities Repairer)
Army: Engineer Missile Equipment Specialist (62C)
Navy: Gunner's Mate (Missiles) (GMM)
Air Force: Missile Facilities Specialist (54150)

4. Composite Service Job Statement: Repairs missile weapons systems support facilities and equipment. Inspects, services, and replaces electrical, pneudraulic and mechanical components of missile weapons systems real-property-installed equipment, facilities, and ground support equipment such as missile pedestals, crib suspensions, pendulum links, shock mounts, maintenance work platforms, erection booms, umbilical

brackets, and suspension devices. Services support equipment with fuel, lubricants, hydraulic fluid and air. Operates auxiliary motor generators, battery systems and portable self-powered handling equipment. Aligns missile to launcher using equipment such as collimator systems.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: Normal color discrimination.
   c. Specific: None.

6. Related Service Jobs:
   Navy: Missile Technician (MT)
   Air Force: Aircraft Pneudraulic Equipment Repairman (42152)

INSTALLATION AND REPAIR OF ELECTRICAL PRODUCTS

1. USOE Cluster: Manufacturing

2. Civilian Title: In-Flight Refueling Systems Repairer (829.281T)

3. Military Titles: (In-Flight Refueling Systems Repairer)
   Air Force: In-Flight Refueling Systems Repairman (42451)

4. Composite Service Job Statement: Inspects, tests, modifies and repairs aircraft in-flight refueling systems and associated equipment using electrical test instruments and special handtools applying knowledge of system wiring diagrams, technical publications, and design characteristics: Repairs in flight refueling electrical devices such as elevation, telescope, and azimuth control assemblies and limit switches. Conducts detailed tests of in-flight refueling electrical systems using ohmmeter, voltmeter, and electrical test equipment. Adjusts and calibrates aircraft in-flight electrical and hydraulic systems to insure maximum operation efficiency, using wiring diagrams and technical publications. Adjusts end play, spacing, clearance and specified torque on in-flight refueling components. Inspects seals gaskets, hoses, tubing, hydraulic motors, fuel pumps, valves, filters, accumulators and plumbing installations for leakage and functional operation. Fabricates wiring assemblies for replacing damaged cables and wiring in electrical systems.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Normal color discrimination is mandatory.
   c. Specific: None.

6. Related Service Jobs:
   Air Force: In-flight Refueling Operator (42550)
   Marine Corps: Aircraft Flight Engineer, KC-130, (6038)

MISCELLANEOUS CONSTRUCTION

1. USOE Cluster: Construction

2. Civilian Title: Assistant Construction Superintendent (869.368T)

3. Military Titles: (Assistant Construction Superintendent)
   Army: Construction Foreman (51H)

Navy: Master Chief Constructionman (CU); Master Chief Equipmentman (EQ)
Air Force: Structural Superintendent (55295); Mechanical Superintendent (54790); Pavements and Construction Equipment Superintendent (55191)
Marine Corps: Engineer Operations Chief (1379)
Coast Guard: Damage Controlman (QC: 03)

4. Composite Service Job Statement: Assists superiors in directing activities of workers concerned with construction of buildings, dams, highways, pipelines, or other construction projects. Assists superiors in planning construction procedures, specifications, work schedules and material needs. Inspects work in progress to insure that workmanship conforms to specifications and adherence to work schedules.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: High degree of strength and stamina.
   c. Specific: Work experience on various construction jobs.

6. Related Service Jobs: None.

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Deep Submergence Vehicle Crewmember (911.782T)
3. Military Titles: (Deep Submergence Vehicle Crewmember)
   Navy: Deep Submergence Vehicle Crewmember (9563)

4. Composite Service Job Statement: Services, repairs and maintains deep submergence vehicle (small non-combatant submarine) and assists Deep Submergence Vehicle Operator in pre-dive and post-dive inspection and operation of vehicle. Connects high pressure air and oxygen hoses from land-based equipment to vehicle. Services vehicle with oil and hydraulic fluid. Connects cables to and charges vehicle battery. Inspects, and replaces seals, gaskets, hoses, tubing, hydraulic motors, pumps, valves, filters and other such equipment and components aboard vehicle. Conducts detailed pre-dive and post-dive tests of mechanical, life supporting, electrical and hydraulic systems. Occasionally drives vehicle and supervises subordinates.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Manual dexterity.
   c. Specific: Self reliance and ingenuity. Ability to remain calm under stress. Must be physically and emotionally qualified for duty aboard submarines.

6. Related Service Jobs:
   Navy: Deep Submergence Vehicle Operator (9562)

WATER TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Deep Submergence Vehicle Operator (911.883T)

3. Military Titles: (Deep Submergence Vehicle Operator)
Navy: Deep Submergence Vehicle Operator (9562)

4. Composite Service Job Statement: Commands and pilots deep submergence vehicle (small non-combatant submarine) to obtain oceanographic research information, recover other sunken vessels or objects from the ocean's floor or transport passengers, such as scientists, researchers and technicians, to the ocean's bottom. Conducts pre-dive and post-dive inspection of vehicle to insure vehicle is sea worthy and life support systems are properly functioning. Reads gages to verify hydraulic fluid, air pressure and oxygen are at required levels. Navigates vehicle based on such knowledge as ocean, currents, and vehicle. Pushes or pulls control levers on console to steer vehicle. Pushes switches to supply power to various units such as main power supply or mechanical arms which are located outside of the vehicle and used to pick up, collect or move objects on the ocean's floor. Monitors sonar and navigational aids. Directs subordinates in their activities. Occasionally instructs students in operation of vehicle.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: Manual dexterity.
   c. Specific: Self reliance and ingenuity. Ability to remain calm under stress. Must be physically and emotionally qualified for duty aboard submarines.

6. Related Service Jobs:
Navy: Deep Submergence Vehicle Crewmember (9563)

AIR TRANSPORTATION

1. USOE Cluster: Transportation

2. Civilian Title: In-Flight Refueling Operator (912.782T)

3. Military Titles: (In-Flight Refueling Operator)
Navy: Crewman/Navigator KA-3B (8254)
Air Force: In-Flight Refueling Operator (42550)
Marine Corps: Aircraft Flight Engineer, KC-130, (6038)

4. Composite Service Job Statement: Operates air refueling systems aboard aircraft tanker to refuel airborne aircraft. Confers with receiver aircraft pilot to direct aircraft into air refueling position, using radio. Presses buttons and switches on control panel to extend in-flight boom and connect tanker and receiver aircraft. Presses button to start refueling process. Monitors control panel light to detect equipment malfunctions. Contacts receiver aircraft pilot using radio to inform pilot of progress being made during refueling, to advise pilot of action necessary to maintain safe refueling position and inform pilot of steps to be taken during equipment malfunction or emergencies. Calculates in-flight weight and balance status of aircraft and notifies tanker pilot of necessary flight correction.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in general mathematics, algebra and physics.
   b. Physical: Normal depth perception.
   c. Specific: Must be eligible for appropriate security clearance.

6. Related Service Jobs: None.

MISCELLANEOUS TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Tank and Amphibian Tractor Operations Chief (919.138T)
3. Military Titles: (Tank and Amphibian Tractor Operations Chief)
   Army: Amphibian Operator (61D); Marine Senior Sergeant (61Z)
   Marine Corps: Tank and Amphibian Tractor Operations Chief (1891); Tank Chief (1892); Amphibian Tractor Chief (1893)

4. Composite Service Job Statement: Supervises and coordinates activities of workers engaged in operation and maintenance of tanks or amphibian tractors and equipment in combat or training situation. Instructs personnel in operation of tanks or amphibian tractors and equipment. Inspects equipment to determine need for servicing or repair and directs workers in servicing or repairing vehicles and equipment. Directs loading of personnel and supplies on vehicle. Directs vehicle driver in movement of vehicle in combat situation on land or water. Prepares vehicle journals and worksheets concerning tactical situation.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: None
   c. Specific: None
6. Related Service Jobs:
   Army: Armor Reconnaissance Specialist (11D); Armor Crewman (11E); Combat Engineer Tracked Vehicle Crewman (12F)

MISCELLANEOUS TRANSPORTATION

1. USOE Cluster: Transportation
2. Civilian Title: Armor Reconnaissance Specialist (919.363T)
3. Military Titles: (Armor Reconnaissance Specialist)
   Army: Armor Reconnaissance Specialist (11D)

4. Composite Service Job Statement: Drives wheeled or tracked vehicle and observes area to gather information concerning terrain features, enemy strength and location, serving as member of ground armored reconnaissance unit. Reports information to commander using secure voice communication procedure. Writes field messages to report combat reconnaissance information. Drives armored, tracked and wheeled vehicles in support of tactical operations to harass, delay, and destroy enemy troops. Directs gunfire from vehicle to provide covering or flanking fire against enemy attack. Prepares and employs night firing aids. Tests surrounding air to determine presence and identity of chemical agents using chemical agent detecting equipment, radiac, or radiological monitoring device. Drives vehicle to bridge locations to mark routes and control traffic. Requests and adjusts mortar and artillery fire and reports effectiveness of fire.

5. Desirable Qualifications Summary:
   a. Academic Background: None.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
Army: Armor Crewman (11E)
Marine Corps: Tank Crewman (1811)

MISCELLANEOUS TRANSPORTATION

1. USOE Cluster: Transportation

2. Civilian Title: Amphibian Crewmember (919.883T)

3. Military Titles: (Amphibian Crewmember)
Army: Amphibian Operator (61D)
Marine Corps: Armored Amphibian Crewman (1831); Amphibian Tractor Crewman (1833)

4. Composite Service Job Statement: Drives or steers amphibious equipment, such as tractors and armored vehicles, on land and sea to transport personnel, supplies, and equipment in support of combat or training operations: Loads supplies and equipment aboard vehicle. Confers with superior to determine course to be followed. Drives or steers vehicle to transport personnel, supplies and equipment between ship and shore. Confers with personnel aboard ship and on land, using radio to transmit and receive information concerning enemy location, troop movement, and enemy gunfire encountered. Loads ammunition into breech of weapon. Aims and fires weapon at enemy emplacement.

5. Desirable Qualifications Summary:
a. Academic Background: None.
b. Physical: None.
c. Specific: None.

6. Related Service Jobs:
Navy: Assault Boat Coxswain (BM-0164); Landing Craft Utility Captain (BM-0165)

MISCELLANEOUS TRANSPORTATION (NEC)

1. USOE Cluster: Construction

2. Civilian Title: Powered Bridge Specialist (919.883T)

3. Military Titles: (Powered Bridge Specialist)
Army: Powered Bridge Specialist (12D)

4. Composite Service Job Statement: Operates mobile assault bridge vehicle and other power bridging equipment on land and water to position and connect bridge and raft sections across streams, rivers, and other water obstacles: Selects most suitable site for entering of streams and other water obstacles, based on physical characteristic of water obstacles, such as depth, distance across, and swiftness of water, using depth charges, range indicators and tide and current tables. Manipulates driver's controls and helm to start, stop, and steer vehicle and connects with other vehicles to form rafts and bridges. Operates bilge pumps to pump water out of vehicle. Confers with other vehicle operators and other unit personnel, using radio and interphone, to provide information concerning progress of work, enemy troop movement and similar tactical information. Splices cables and ropes and maintains bridge tools. Guards bridge crossing sites to prevent capture or destruction by enemy.

5. Desirable Qualifications Summary:
   a. Academic Background: None
   b. Physical: Normal color discrimination.
   c. Specific: None

6. Related Service Jobs: None

MISCELLANEOUS TRANSPORTATION

1. USOE Cluster: Transportation

2. Civilian Title: Tank Crewmember (919.883T)

3. Military Titles: (Tank Crewmember)
   Army: Armor Crewman (11E); Combat Engineer Tracked Vehicle Crewman (12F)
   Marine Corps: Tank Crewman (1811)

4. Composite Service Job Statement: Drives tank and fires tank weapons working as member of tank crew: Prepares tank and equipment for movement and combat. Drives tank over all types of terrain to locate target. Loads ammunition into breech of weapon. Aims weapon, using tank fire control equipment and fires weapon at target. Camouflages position and protects tank and equipment against chemical warfare agents. Decontaminates tank and equipment when exposed to contaminants.

5. Desirable Qualifications Summary:
   a. Academic Background: Courses in automotive shop.
   b. Physical: None.
   c. Specific: None.

6. Related Service Jobs:
   Marine Corps: Armored Amphibian Crewman (1831); Amphibian Tractor Crewman (1833)

HOISTING AND CONVEYING

1. USOE Cluster: Transportation

2. Civilian Title: Aircraft Launch and Recovery Technician (921.883T)

3. Military Titles: (Aircraft Launch and Recovery Technician)
   Navy: Aviation Boatswain's Mate (Launching and Recovery Equipment) (ABE); Steam Catapultman (AB-7013); Arresting Gear Maintenanceman (AB-7015)
   Marine Corps: Aircraft Launch and Recovery Technician (7011)

4. Composite Service Job Statement: Operates aircraft launching and recovery equipment such as hydraulic or steam catapults, barricades, arresting gear, and visual landing aids to launch or recover aircraft on aircraft carriers and land based airfields: Operates arresting gear or catapult consoles and controls to fire catapults, raise and lower arresting gear and blast deflectors and control other launch and recovery equipment. Calibrates, adjusts, and tests launch and recovery equipment using electrical and mechanical test equipment and handtools. Disassembles catapults, arresting gear, and other equipment and replaces de-

fective parts using handtools. Splices broken arresting gear cables using cable splicing tools. Maintains log of aircraft launches, recoveries and maintenance performed on equipment. Occasionally directs aircraft launch or recovery operations using visual hand or light signals.

5. Desirable Qualifications Summary:
    a. Academic Background: None
    b. Physical: Normal color discrimination and hearing required.
    c. Specific: None
6. Related Service Jobs: None

TRANSMISSION OF COMMUNICATIONS

1. USOE Cluster: Communications and Media
2. Civilian Title: Airborne Sensor Specialist (957.382T)
3. Military Titles: (Airborne Sensor Specialist)
    Army: Airborne Sensor Specialist (17L)

4. Composite Service Job Statement: Operates airborne sensory equipment to locate and identify friendly and enemy aircraft: Places and secures sensor equipment, such as IFF, infrared and radar, in aircraft. Pushes buttons, presses switches and turns knobs to start, control and stop equipment. Observes equipment scopes and indicators to obtain data to determine location and identity of aircraft. Contacts Command Post personnel using radio to report presence of enemy aircraft. Visually examines equipment to detect malfunctions. Replaces malfunctioning components, including tubes and circuit boards to repair equipment, using handtools.

5. Desirable Qualifications Summary:
    a. Academic Background: None
    b. Physical: Normal color discrimination.
    c. Specific: Must be eligible for security clearance.
6. Related Service Jobs:
    Navy: Sensor Interpreter (PT6701)
    Air Force: Avionic Sensor Systems Specialist (32950); Aerospace Control and Warning Systems Operator (27650)

TRANSMISSION OF COMMUNICATIONS

1. USOE Cluster: Public Service
2. Civilian Title: Sound Ranging Crewmember (957.382T)
3. Military Titles: (Sound Ranging Crewmember)
    Army: Sound Ranging Crewman (17C)

4. Composite Service Job Statement: Operates sound ranging equipment to detect location of enemy artillery fire during combat or training situation serving as member of sound ranging crew. Patrols area and selects operating site. Deploys sound detection equipment and monitors equipment to detect sounds of

INDEX

CIVILIAN TITLES	DOT CODE	PAGE
Able Seaman	911.884	4-204
Accountant, Budget	160.188	4-44
Accounting Clerk	219.488	4-80
Aerial-Photograph Interpreter	029.188	4-16
Aerospace Physiological Technician	199.782(T)	4-229
Airborne Sensor Specialist	957.382(T)	4-256
Aircraft-and-Engine Mechanic	621.281	4-120
Aircraft-Armament Mechanic	632.281	4-129
Aircraft Launch and Recovery Technician	921.883(T)	4-255
Aircraft-Log Clerk	219.388	4-77
Aircraft-Photographic-Equipment Maintenance Mechanic	714.281	4-147
Airplane Coverer	849.781	4-182
Airplane Inspector	621.281	4-121
Airplane Flight Attendant	352.878	4-100
Airport Attendant	912.384	4-206
Air-Traffic-Control Specialist, Center	193.168	4-56
Air-Traffic-Control Specialist, Tower	193.168	4-56
Alteration Tailor	785.281	4-156
Ammunition Supervisor	223.138	4-82
Amphibian Crewmember	919.883(T)	4-254
Announcer	159.148	4-43
Antitank Assault Gunner	378.884(T)	4-243
Armor Reconnaissance Specialist	919.363(T)	4-253
Arranger	152.088	4-42
Artificial-Plastic-Eye Maker	713.281	4-146
Artillery-Maintenance Supervisor	632.131	4-128
Artillery/Naval Gunfire Observer	378.367(T)	4-238
Asphalt-Paving- Machine Operator	853.883	4-185
Assistant Construction Superintendent	869.368(T)	4-250
Audiometrist	078.368	4-21
Audio-Video Repairer	729.281	4-151
Audiovisual Equipment Operator	969.782	4-218
Auditor	160.188	4-45
Automatic-Equipment Technician	822.281	4-166

CIVILIAN TITLES	DOT CODE	PAGE
Automobile-Body Repairer	807.381	4-161
Automobile Mechanic	620.281	4-116
Automobile Mechanic, Chief	620.131	4-117
Automobile Upholsterer	780.381	4-155
Aviation Support Equipment Repairer	639.281(T)	4-248
Baker	313.781	4-98
Barber	330.371	4-99
Biologist	041.081	4-18
Blaster	859.281	4-187
Blood-Bank Technologist	078.281	4-19
Boatswain	911.131	4-200
Boiler Inspector	168.287	4-48
Boilermaker I	805.281	4-160
Bomb Disposal Specialist	632.281	4-130
Bookbinder	977.884	4-221
Bookkeeper I	210.388	4-71
Braker, Passenger Train	910.364	4-200
Bricklayer	861.381	4-189
Bulldozer Operator I	850.883	4-183
Butcher, Meat	316.781	4-99
Cable Splicer	829.381	4-180
Camera Operator	143.062	4-35
Camera Operator, First	143.062	4-36
Camera Operator, Second	143.062	4-36
Camera Repairer	714.281	4-147
Camouflage Specialist	378.884(T)	4-244
Canvas Worker	739.381	4-154
Carbon-Dioxide Operator I	559.782	4-112
Cargo Agent	912.368	4-205
Car Repairer	622.381	4-124
Carpenter	860.381	4-189
Case Aid	195.208	4-59
Cashier I	211.368	4-72
Cement Mason	844.884	4-181
Central-Office Operator	235.862	4-90
Central-Office-Operator Supervisor	235.138	4-89

CIVILIAN TITLES	DOT CODE	PAGE
Central-Office Repairer	822.281	4-167
Central-Office-Repairer Supervisor	822.131	4-165
Chemical Engineer	008.081	4-5
Chemical-Laboratory Technician	022.281	4-13
Chief Clerk II	169.168	4-50
Civil Engineer	005.081	4-2
Clerk-Typist	209.588	4-70
Coding Clerk	219.388	4-78
Combat Rifle Crewmember	378.884(T)	4-244
Combat Surveillance and Target Acquisition Crewmember	378.887(T)	4-248
Combat Surveillance and Target Acquisition NonCommissioned Officer	378.137(T)	4-233
Command and Control Specialist	235.862(T)	4-231
Composing-Room Machinist	627.281	4-126
Computer-Peripheral-Equipment Operator	213.382	4-73
Concrete-Paving-Machine Operator	852.883	4-185
Concreting Supervisor	869.131	4-191
Construction Engineer	005.081	4-3
Construction-Equipment Mechanic	620.281	4-117
Construction Estimator	160.288	4-45
Construction Inspector	182.287	4-51
Construction Worker II	869.887	4-192
Cook	305.281	4-96
Cook	315.381	4-98
Correction Officer	372.868	4-104
Cost Clerk	219.488	4-81
Counselor II	045.108	4-19
Counterintelligence Agent	378.267(T)	4-236
Court Reporter	202.388	4-66
Crater II	920.884	4-209
Crusher Operator	859.885	4-188
Cryptanalyst	199.288	4-63
Cryptographic-Machine Operator	208.588	4-70
Cytotechnologist	078.281	4-20
Decontaminator	199.885	4-64
Deep Submergence Vehicle Crewmember	911.782(T)	4-251
Deep Submergence Vehicle Operator	911.883(T)	4-251

CIVILIAN TITLES	DOT CODE	PAGE
Defensive Fire Control Systems Operator	378.382(T)	4-241
Dental Assistant	079.378	4-27
Dental Hygienist	078.368	4-21
Dental Laboratory Technician	712.381	4-145
Department Head, Supermarket	299.138	4-93
Detective	375.268	4-107
Developer	976.381	4-219
Diesel Mechanic	625.281	4-125
Diesel-Plant Operator	952.782	4-213
Digital-Computer Operator	213.382	4-74
Director, Stage	150.028	4-40
Disaster/Damage Control Specialist	378.367(T)	4-238
Diver	899.281	4-194
Dock Hand	891.884	4-193
Dog Trainer	159.228	4-44
Drafter, Apprentice	017.281	4-7
Drafter, Civil	005.281	4-3
Drafter, Topographical	017.281	4-8
Driller, Water Well	859.782	4-187
Driver Supervisor	908.138	4-199
Dry Cleaner	362.782	4-103
Dry-Cleaning Superintendent	369.138	4-104
Dump-Truck Driver	902.883	4-197
Editor, Film	962.288	4-218
Editor, Managing, Newspaper	132.018	4-32
Editor, News	131.038	4-30
Efficiency Engineer	012.188	4-6
Electrical Instrument Repairer	729.281	4-152
Electrician	824.281	4-172
Electrician, Airplane	825.281	4-172
Electrician, Automotive	825.281	4-173
Electrician, Locomotive	825.281	4-174
Electrician, Power House	820.281	4-163
Electric-Motor Repairer	721.281	4-150
Electric-Motor Winder	721.884	4-151
Electrocardiograph Technician	078.368	4-22

CIVILIAN TITLES	DOT CODE	PAGE
Electroencephalograph Technician	078.368	4-22
Electromechanical Technician	710.281	4-141
Electromedical-Equipment Repairer	729.281	4-152
Electronic Engineer	003.081	4-2
Electronic Intelligence Operations Specialist	193.382(T)	4-227
Electronics Mechanic	828.281	4-174
Embalmer	338.381	4-100
Employment Interviewer I	166.268	4-47
Engineer	197.130	4-61
Engineering-Equipment Mechanic	620.281	4-118
Engine Repairer, Service	625.281	4-125
Exterminator	389.884	4-109
Field Artillery Crewmember	378.884(T)	4-245
Field Artillery Operations Specialist	378.368(T)	4-240
Field Artillery Senior Sergeant	378.132(T)	4-233
Film-Library Clerk	223.387	4-84
Fire-Control Mechanic	632.281	4-130
Fire Fighter	373.884	4-106
Fire Fighter, Crash	373.884	4-107
Firer, Marine	951.885	4-211
Fire Marshal	373.168	4-105
First-Aid Attendant	354.878	4-101
Flash Ranging Crewmember	378.368(T)	4-240
Flight Engineer	621.281	4-122
Flight Operations Specialist	209.388(T)	4-230
Food and Drug Inspector	168.287	4-49
Forge Helper	619.886	4-115
Forge-Shop Supervisor	612.131	4-115
Fuel-System-Maintenance Worker	630.781	4-127
Furnace Installer-and-Repairer, Hot Air	869.281	4-192
Geodetic Computer	018.188	4-8
Grading Supervisor	859.131	4-186
Graves Registration Specialist	355.887(T)	4-232
Ground Instructor, Instrument	097.228	4-28
Guard I	372.868	4-105
Guided Missile Technician	632.381	4-133

CIVILIAN TITLES	DOT CODE	PAGE
Gunsmith	632.281	4-131
Human Relations/Drug and Alcohol Counselors	195.208(T)	4-228
Hydraulic Tester	621.281	4-123
Illustrator	141.081	4-34
In-Flight Refueling Operator	912.782(T)	4-252
In-Flight Refueling Systems Repairer	829.281(T)	4-250
Industrial Engineering Technician	012.288	4-7
Industrial-Truck Operator	922.883	4-210
Infantry Indirect Fire Crewmember	378.884(T)	4-245
Infantry Operations Specialist	378.388(T)	4-242
Infantry Unit Leader	378.138(T)	4-234
Infantry Weapons Crewmember	378.884(T)	4-246
Inhalation Therapist	079.368	4-25
Inspector (Ammunition) III	737.387	4-153
Installer Repairer	822.281	4-168
Instructor, Physical	153.228	4-42
Instructor, Vocational School	097.228	4-29
Instrument Repairer	711.884	4-143
Instrument Mechanic	710.281	4-142
Intelligence Clerk	199.288(T)	4-228
Intelligence Specialist	059.268(T)	4-224
Interpreter	137.268	4-33
Keeler-Polygraph Operator	199.268	4-62
Key-Punch Operator	213.582	4-75
Kitchen Supervisor	310.138	4-96
Laundry-Machine Mechanic	629.281	4-126
Laundry Worker II	361.885	4-103
Law Clerk	119.288	4-30
Legal Secretary	201.368	4-66
License Clerk	249.368	4-91
Light Air Defense Artillery Crewmember	378.884(T)	4-247
Line Installer-Repairer	822.381	4-168
Line Maintainer	821.381	4-164
Line-Service Attendant (Fuels)	912.887	4-207
Line Supervisor (Light, Heat, and Power)	821.131	4-164
Line Supervisor (Tel. and Tel.)	822.131	4-166

CIVILIAN TITLES	DOT CODE	PAGE
Load-Control Agent	219.388	4-78
Locksmith	709.281	4-141
Locomotive Engineer I	910.383	4-200
Machinist I	600.280	4-114
Machinist, Marine Engine	623.281	4-124
Machinist, Wood	669.380	4-138
Machinists, Motion-Picture Equipment	714.281	4-148
Magazine Keeper	223.387	4-84
Maintenance Data Analyst	221.368(T)	4-230
Maintenance Machinist	600.280	4-114
Manager, News, Special Events, and Public Affairs	131.038	4-31
Manager, Night Club	187.168	4-55
Manager, Office	169.168	4-50
Manager, Recreation Establishment	187.168	4-55
Manager, Store I	185.168	4-54
Manager, Traffic	184.168	4-52
Marksmanship Instructor	378.228(T)	4-234
Material Clerk	223.387	4-85
Mechanical Engineer	007.081	4-4
Mechanic, Endless Track Combat Vehicle	620.381	4-119
Medical Assistant	079.368	4-26
Medical-Laboratory Assistant	078.381	4-23
Medical Photographer	143.382	4-38
Medical-Record Clerk	249.388	4-92
Medical Service Technician	079.368(T)	4-225
Medical Technologist	078.281	4-20
Metallurgist, Assistant	011.281	4-5
Meteorological-Equipment Repairer	823.281	4-169
Meteorologist	025.088	4-14
Missile Facilities Repairer	828.281(T)	4-249
Molder	518.381	4-111
Morse Operator	236.588	4-90
Motion-Picture Projectionist	960.382	4-217
Motor Boat Operator	911.883	4-202
Motor-Grader Operator	851.883	4-184
Musical-Instrument Repairer	730.281	4-153

CIVILIAN TITLES	DOT CODE	PAGE
Musician, Instrumental	152.048	4-40
Navigator	196.188	4-60
Noise and Vibration Analyst	019.281(T)	4-223
Nuclear Medical Technologist	078.381	4-24
Nuclear Weapons Mechanical Specialist	632.281	4-131
Nurse Aid	355.878	4-101
Occupational Therapy Aid	079.368	4-26
Oceanographer, Assistant	025.288(T)	4-223
Office-Machine Servicer	633.281	4-134
Offset Press Operator	651.782	4-137
Operating Engineer	859.883	4-188
Operations and Intelligence Assistant	239.368(T)	4-232
Optician, Dispensing	299.884	4-94
	713.251	4-146
Orchestra Leader	152.048	4-41
Ordinary Seaman	911.887	4-204
Ordnance Artificer	632.281	4-132
Orthopedic-Appliance-and-Limb Technician	712.281	4-144
Orthopedic-Cast Specialist	712.884	4-145
Oxygen-Plant Operator	552.782	4-111
Painter, Aircraft	845.781	4-181
Painter, Rough	840.884	4-180
Parachute Inspector	782.687	4-156
Parachute Rigger	912.884	4-206
Parts Clerk	223.387	4-86
Patternmaker, Wood	661.281	4-137
Pay-Roll Clerk	215.488	4-76
Pay-Roll Clerk, Chief	219.138	4-77
Personnel Clerk	205.368	4-69
Pharmacist's Assistant	074.381(T)	4-224
Photogrammetrist	018.281	4-10
Photographer, Aerial	143.382	4-39
Photographer, Commercial	143.062	4-37
Photographer, Lithographic	972.382	4-219
Photographer, News	143.062	4-38
Photographic, Sensitometrist	976.381	4-220

CIVILIAN TITLES	DOT CODE	PAGE
Physical Therapist's Assistant	079.378(T)	4-225
Physicist	023.281	4-13
Pile-Driving Supervisor	859.131	4-186
Pilot, Ship	197.133	4-61
Plumber	862.381	4-190
Pneumatic Tester and Mechanic	621.381	4-123
Police Officer	375.268	4-108
Popular Singer	152.048	4-41
Post-Office Clerk	232.368	4-89
Powered Bridge Specialist	919.883(T)	4-254
Powerhouse Repairer	631.281	4-128
Power-Plant Operator I	952.782	4-213
Power-Reactor Operator	952.380	4-212
Power-Shovel Operator	850.883	4-183
Precision-Lens Grinder	675.380	4-139
Prisoner-Classification Interviewer	166.268	4-47
Procurement Clerk	223.368	4-83
Producer I	159.118	4-43
Production Clerk II	221.388	4-81
Programer, Business	020.188	4-12
Programer, Chief, Business	020.168	4-12
Programer, Detail	219.388	4-79
Psychiatric Aid	355.878	4-102
Psychometrist	045.088	4-18
Pumper	914.885	4-207
Quartermaster	911.883	4-202
Radar Operator	957.382	4-215
Radiographer	199.381	4-63
Radiologic Technologist	078.368	4-23
Radio Mechanic II	823.281	4-170
Radio Officer	193.282	4-57
Radiosonde Operator	025.288	4-15
Radiotelegraph Operator	193.282	4-58
Radiotelephone Operator	193.282	4-58
Reconnaissance Crewmember	378.367(T)	4-239
Recreation Leader	195.228	4-60

CIVILIAN TITLES	DOT CODE	PAGE
Recruit Instructor	378.228(T)	4-235
Recruiter/Career Counselor	166.268(T)	4-227
REDEYE Gunner	378.382(T)	4-241
Refrigeration Mechanic	637.281	4-135
Religious-Affairs Clerk	249.368	4-92
Renovation-Plant Supervisor	694.132	4-139
Repairer, Gyroscope	710.381	4-142
Reporter	132.268	4-33
Rigger II	921.280	4-209
Rock-Drill Operator I	850.883	4-184
Router	239.588	4-91
Rubber and Plastics Worker	759.782(T)	4-249
Safety Inspector I	168.284	4-48
Sanitary Inspector	168.287	4-49
Sawmill Worker	667.782	4-138
Script Writer	131.088	4-31
Senior Enlisted Advisor	166.168(T)	4-226
Sewing-Machine Repairer	639.281	4-136
Sheet-Metal Worker	804.281	4-159
Shipfitter	806.381	4-160
Shipping Clerk I	222.138	4-81
Skin Diver	379.884	4-108
Skin Fitter	807.381	4-162
Smoke and Flame Specialist	378.782(T)	4-242
Soils Tester	029.181	4-16
Sonar Operator	957.382	4-216
Sound Mixer	194.282	4-59
Sound Ranging Crewmember	957.382(T)	4-256
Sound Technician	829.281	4-179
Sous Chef	313.131	4-97
Stationary Engineer	950.782	4-211
Station Installer	822.381	4-169
Statistical Clerk	219.388	4-79
Statistical-Machine Servicer	633.281	4-135
Statistician, Mathematical	020.088	4-11
Stenographer	202.388	4-67

CIVILIAN TITLES	DOT CODE	PAGE
Stevedore	911.883	4-203
Steward/Stewardess	310.138	4-97
Stock Clerk	223.387	4-86
Stock-Control Clerk	223.387	4-87
Stock-Control Supervisor	223.138	4-83
Storekeeper	223.387	4-88
Structural-Steel Worker	801.781	4-159
Superintendent, Stevedoring	911.138	4-201
Supervisor, Aircraft Maintenance	621.131	4-120
Supervisor, Canvas Products	789.137	4-157
Supervisor, Computer Operations	213.138	4-72
Supervisor, Labor Gang	899.133	4-194
Supervisor, Machine-Records Unit	213.138	4-73
Supervisor, Optical Instruments	711.138	4-143
Supervisor, Press Room	651.130	4-136
Surgical Technician	079.378	4-28
Survey Helper, Rod	018.587	4-11
Surveyor	018.188	4-9
Surveyor, Geodetic	018.188	4-10
Survival Equipment Repairer	739.381	4-155
Survival Specialist	378.228(T)	4-236
Systems Analyst, Business-Electronic-Data Processing	012.168	4-6
Tabulating-Machine Operator	213.782	4-75
Tank and Amphibian Tractor Operations Chief	919.138(T)	4-253
Tank Crewmember	919.883(T)	4-255
Tank-Truck Driver	903.883	4-197
Tape Librarian	223.387	4-88
Target Aircraft Technician	378.281(T)	4-237
Teacher, Art	149.028	4-39
Telegraphic-Typewriter Operator	203.588	4-68
Telegraphic-Typewriter Operator, Chief	203.138	4-67
Television Service-and-Repairer	720.281	4-149
Tester	029.281	4-17
Tester, Plumbing Systems	806.381	4-161
Tire Repairer	915.884	4-208
Tissue Technologist	078.381	4-24

CIVILIAN TITLES	DOT CODE	PAGE
Tool Grinder II	603.885	4-115
Tow-Truck Operator	919.883	4-208
Track-Laying Supervisor	869.134	4-191
Tractor-Trailer-Truck Driver	904.883	4-198
Traffic Chief, Radio Communications	184.168	4-52
Train Dispatcher	184.168	4-53
Training Representative	166.228	4-46
Translator	137.288	4-34
Transmission Mechanic	620.281	4-119
Transmitter Operator	957.282	4-215
Transportation Agent	912.368	4-205
Transportation Supervisor	184.168	4-53
Travel Clerk	205.168	4-68
Treatment-Plant Mechanic	630.281	4-127
Truck Driver, Heavy	905.883	4-198
Truck Driver, Light	906.883	4-199
Tugboat Captain	197.133	4-62
Unattended Ground Sensor Specialist	957.382(T)	4-257
Utilities-and-Maintenance Supervisor	899.131	4-193
Veterinary-Hospital Attendant	356.874	4-102
Vulcan Crewmember	378.884(T)	4-247
Watchmaker	715.281	4-149
Water-Treatment-Plant Operator	954.782	4-214
Weather Observer	025.288	4-15
Welder, Combination	812.884	4-163

REFERENCES

U.S. Air Force. **Airman Classification Manual**. AFM 39-1, Vols. 1, 2. 1969.

U.S. Army. **Army Occupational Handbook**. U.S. Government Printing Office, Washington, D.C., 1974.

U.S. Army. **Enlisted Career Management Fields and Military Occupational Specialties**. AR 611-201, 1974.

U.S. Army. **Enlisted Personnel Management System**. AR 600-200, 1971.

U.S. Coast Guard. **Enlisted Ratings Qualification Manual**. CG 311, 1971.

U.S. Marine Corps. **Military Occupational Speciality Manual**. MCO P 1200.7, 1972.

U.S. Marine Corps. **Numerical Index of Military Occupational Specialties**. NAVMC 1008-A, 1974.

U.S. Navy. **Manual of Navy Enlisted Classification**. NAVPERS 15105-Z, 1974.

U.S. Navy. **Manual of Qualification of Advancement**. NAVPERS 18068-C, 1971.

U.S. Navy Recruiting Command. **Navy Training-Civilian Career—To Be Someone Special**. RAD 73112, 1974.

U.S. Department of Defense. **Counselor's Manual**, Vol. II. Armed Forces Vocational Testing Group, Randolph Air Force Base, Texas, 1974.

U.S. Department of Defense. **Military/Civilian Job Comparability Manual**. Office of the Assistant Secretary of Defense (Manpower and Reserve Affairs), Washington, D.C., (Undated) .

U.S. Department of Defense. **Occupational Conversion Manual (Enlisted)**. Office of the Assistant Secretary of Defense (Manpower and Reserve Affairs), Washington, D.C., 1974.

U.S. Department of Defense. "Report"; School Year 1974-75. High School News Service, Great Lakes, Illinois.

U.S. Department of Labor. **Dictionary of Occupational Titles** (3rd ed), Vols. I, II. Superintendant of Documents, U.S. Government Printing Office, Washington, D.C., 1965.

U.S. Department of Labor. **Handbook for Analyzing Jobs**. Superintendant of Documents, U.S. Government Printing Office, Washington, D.C., 1972.

U.S. Department of Labor. **Job Description and Organizational Analysis For Hospitals and Related Health Services**. (Rev. ed). Superintendant of Documents, U.S. Government Printing Office, Washington, D.C., 1971.

U.S. Department of Labor. **Occupational Clustering in the Department of Labor**. Superintendant of Documents, U.S. Government Printing Office, Washington, D.C., (undated).

☆ U.S. GOVERNMENT PRINTING OFFICE: 1975 -(673-827)

DEPARTMENT OF DEFENSE
UNITED STATES OF AMERICA

AVTG